

IVEC-Awards:

Nominations are solicited for the **2011 IVEC Award for Excellence in Vacuum Electronics**. Nomination can be made according to the instructions given on the website - <http://www.vacuumelectronics.org>

A **Best Student Paper Award** will also be presented at IVEC-2011. 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.

Submission of Abstracts:

Please submit one copy of an extended summary of the latest original research work in any of the technical areas of the conference 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 country of each author; and the mailing address, telephone & fax numbers, and e-mail of the corresponding author.

Abstracts may be up to 2 pages in length, and set in 8.5 inch x 11 inch paper in two column format (area of text and figures on each page should not exceed 16.5cm x 22.85cm). Please use 14 point bold Times New Roman font for the title and 12 point Times New Roman font for all other text. Please follow IEEE guidelines for authors for reference. Authors should ensure that **no** copyrighted/ published materials/ ideas are included in the extended abstract without proper authentication or citation. They are also required to take necessary clearance from their employers. Abstracts should be submitted electronically in either Adobe Acrobat (.pdf format) or Microsoft Word (.doc format) by Oct 15, 2010 to the website link, which will be active by Sep 2010. In case of difficulty in online submission of the abstract a hard copy along with a CD containing the softcopy of the abstract in proper format may be sent to the mailing address of the conference.

Authors of accepted abstracts will be required to submit their camera-ready IEEE Xplore compliant abstracts not later than Dec 15, 2010. Accepted abstracts will be published in Conference Proceedings, which will be distributed at the meeting.

Oral Presentations:

Each paper selected for oral presentation at the conference will be allotted a total of 12 – 15 minutes for presentation and 3 minutes for questions and discussion.

Poster Presentations:

Papers selected for poster presentation at the conference will be allotted a board of size 1.5m x 1.5m each with board-pins and cello-tapes.

Conference Visa:

All the delegates and exhibitors are advised to apply for a 'Conference Visa' only to the Indian Embassy/ High Commission in their home countries. A tourist or business visa is not valid for this purpose. Please refer to detailed guidelines on website of Indian Embassy. Invitation letters and visa assistance will be provided on request.

About Bangalore:

Bangalore is a fast growing cosmopolitan city, capital of Karnataka State and is called the Garden City of India. It is a major hub of IT, aerospace, electronics, medicare, and higher education institutions. It is also popular for its silk, sandal wood and rose wood artefacts. The climate of Bangalore (1000 meters above sea level) is pleasant during the month of February, when the days are warm and evenings are pleasant. The temperature ranges from 15 °C to 25 °C.

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Contact

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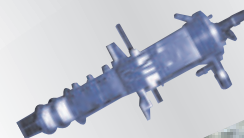
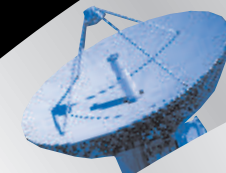
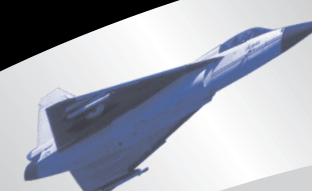
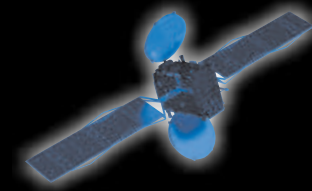
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XII IEEE International Vacuum Electronics Conference

IVEC-2011
February 21-24, 2011

JN Tata Auditorium
National Science Seminar Complex
IISc Campus, CV Raman Avenue
Bangalore, India



सह वीर्यं करवावहे

www.ivec2011.org

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Advancing Technology for Humanity



Lalit Kumar



Baruch Levush

Dear Colleagues,

You are invited to the XII IEEE International Vacuum Electronics Conference (IVEC-2011) to be held during February 21 - 24, 2011, in Bangalore, India. The IEEE-IVEC is a major annual gathering of vacuum electronic device and system professionals, which is held alternately in US and Europe/Asia. IVEC-2010 was held in Monterey, California, USA, in May, 2010. Earlier Asia-Pacific editions of IVEC were held in Japan (2007) and South Korea (2003). IVEC-2011 is organized by the IEEE-EDS Vacuum Electronics Committee, jointly with IEEE Bangalore Section and IEEE ED/SSC Joint Chapter, Bangalore. It is co-sponsored by Defence Research & Development Organisation (DRDO), New Delhi, Bharat Electronics Limited (BEL), Bangalore, Institution of Electronics & Telecommunication Engineers (IETE), New Delhi and Vacuum Electronic Devices & Applications Society (VEDAS), Bangalore. Major scientific departments of India: Council of Scientific and Industrial Research, Department of Science & Technology, Indian Space Research Organisation, Department of Information Technology; other scientific agencies and national/ multi-national companies are likely to support the event.

IEEE - IVEC-2011 will be attended by the renowned professionals of the International Vacuum Electronic Devices and Systems Community. It will commence with an inaugural and plenary sessions including talks by eminent experts to focus onto the scientific and technological strides that are driving the current and future directions in vacuum electronic research. Subsequently, a number of parallel oral and poster sessions will present latest developments in vacuum electronic devices, their theories and computational design tools, active and passive components, technologies and systems and focus on a spectrum of scientific and commercial applications, spanning the range from UHF to THz frequencies. System developers will also find a unique snapshot into the state-of-the-art in vacuum electronic devices for electronic systems encompassing radar, electronic warfare, digital broadcasting, high data-rate communication, medical application, and RF accelerator technology for high energy physics. The meeting will be configured to maximally benefit all attendees with latest updates in the field and fruitful interaction with the peers.

A special **2011 IVEC Award for Excellence in Vacuum Electronics and a Best Student Paper Award** will be awarded during the conference. The meeting and social events will provide a unique opportunity to renew contacts or establish new friendships with colleagues, interact with customers and end-users, and meet students and researchers in the field. Pre-conference tutorials and a Vacuum Electronic Devices & Systems Expo (organized by Vacuum Electronic Devices & Applications Society, India) will also be part of IVEC-2011. We invite you to submit extended abstracts to IVEC-2011 to report on your original work and experiences in vacuum electronics. We look forward to see you all at IVEC-2011, in the 'garden city' of Bangalore.

Sincerely,

Lalit Kumar, General Chair
International Organizing Committee IEEE - IVEC-2011

Baruch Levush, Chairman
IEEE - EDS - Vacuum Electronics Committee

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IEEE - EDS - Vacuum Electronics Committee
IEEE Bangalore Section
IEEE ED/SSC Joint Chapter, Bangalore

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Bharat Electronics Limited, Bangalore, India
Vacuum Electronic Devices and Applications Society, Bangalore, India
Institution of Electronics & Telecommunication Engineers, New Delhi, India

Theme: Vacuum Electronic Devices & Applications

Topics:

1. Vacuum Electron Devices

Traveling-wave tubes
Crossed-field devices
Klystrons and inductive output tubes
Multiple-beam and sheet-beam devices
Fast-wave devices
Free electron lasers and masers
Pulse-compression devices
Plasma-filled amplifiers and oscillators
High power microwave devices for directed energy
Electron tubes, picture tubes, X-ray tubes
Power switches and vacuum interrupters
Novel device concepts

2. Vacuum Microelectronics / Nano-electronics

Microwave, millimeter-wave and THz devices
Field emitter arrays
Planar field emission- and plasma-displays
Sensors and detectors
Nano-electronic devices

3. Technologies

Computer simulation and modeling
Thermal management of electronic devices
Novel materials (high density Graphite, dielectrics, coatings, magnetic materials)
UHV and Thin film technologies
Cathodes and ion sources
Component (gun, circuit, window, collector) and packaging
Linearity, inter-modulation and noise
Miniaturization, micro-fabrication techniques
High voltage RF breakdown and multipactor effects

4. Systems and Subsystems

Microwave and millimeter-wave power modules
Electronic power conditioners
Modulators and linearizers
Microwave transmitters
Device and system integration
Amplifier-antenna coupling
Reliability and quality management

5. Applications of Vacuum Electron Devices

Defence and Space
Radar and Telecommunication
Medicine
Particle accelerators
High energy physics
EMI / EMC test sources
Process, test and measurement equipments
Material processing
RF directed energy and microwave power beaming
Novel applications of RF and microwaves

Pre-conference Tutorials: Two pre-conference tutorials on:

(1) Microwave Tubes, and
(2) High Power Microwaves,
are planned to be held parallelly on Feb 21, 2011. The tutorial must be registered in advance latest by Dec 15, 2010.

Conference Timeline:

Particulars	Last Dates
Submission of abstract	Oct 15, 2010
Notification of acceptance	Nov 15, 2010
Submission of revised abstract	Dec 15, 2010
Registration for Tutorials	Dec 15, 2010
Early Bird Conference Registration	Jan 15, 2011

Conference Program:

Conference Registration & Tutorials	Feb 21, 2011
Conference including plenary, oral and poster sessions	Feb 22-24, 2011
Vacuum Electronic Devices & Systems Expo (organized by VEDAS)	Feb 22-24, 2011

Registration: The registration to the conference and tutorials can be done online.

Tutorial: (Last date for registration Dec 15, 2010)

Category	Fee
General (Global)	\$ 225
Full-time Student (Global) / IEEE	\$ 60
General (Local)	` 5000
Full-time Student (Local)	` 2000

Conference: (Last date for early bird registration Jan 15, 2011)

Category	Advance Registration	Late/ Onsite Registration
Global:		
General	\$ 600	\$ 625
Retired Personnel	\$ 230	\$ 250
Student	\$ 70	\$ 75
Resident Indian:		
General	` 9000	` 10000
Retired Personnel	` 3000	` 4000
Student	` 1500	` 2000

IEEE/IETE/VEDAS members: 20% discount on standard tariff

Mode of Payment: Registration fee may be paid through conference website or by Demand Draft or Banker's Cheque drawn in favor of 'IEEE-IVEC-2011', payable at Bangalore, India.

Vacuum Electronic Devices & Systems Expo:

An indoor exhibition of vacuum electronic devices, systems and equipments will be co-located at IVEC-2011 venue during February 22 – 24, 2011. It would showcase the latest developments and achievements in the devices related to the area of vacuum electronic devices (VED) based system, design tools, components, production and test equipments, etc., through prototypes, models, and multimedia. It will be organized by the Vacuum Electronic Devices and Applications Society (VEDAS), Bangalore. Contact: Dr. Sudhir Kamath, General Secretary, VEDAS. Email: ivec2011expo@gmail.com, kamath@mtrdc.drdo.in

Pre- and Post-conference Tours and Spouse's Programme: On request at an additional cost.

Hotel Accommodation:

Block booking of Hotel Rooms will be done at concessional rate in conveniently located hotels. Delegates are advised to register in advance through conference website to avail concessional tariffs.