



National Symposium on Vacuum Electronic Devices and Applications (VEDA-2019)

Organized by Dept. of Electronics & Communication Engineering
National Institute of Technology Patna India | 21st -23rd November 2019 |



Call for Papers

The National Symposium on Vacuum Electronic Devices and Applications (VEDA-2019) is scheduled to be held during November 21st-23rd, 2019 at National Institute of Technology (NIT) Patna, India. This is being organized by **Department of Electronics & Communication Engineering, NIT Patna** in association with the **VEDA Society of India**. The conference provides a forum for knowledge sharing and exhibition of theoretical and technological development in the general areas of vacuum electronics devices and its system applications. Special session is also being planned to enhance Research Institutes – Industries and Academia Interaction.

Authors are invited to submit contributions for review and consideration for presentation at the symposium on topics of interest of VEDA-2019. Papers will be presented in either oral or poster sessions. Assignment to oral or poster sessions will be based solely on the recommendation of technical program committee.

VEDA-2019 also invites tutorial proposals on the general areas of vacuum electronic device, technologies & applications, RF systems, high power RF, microwave & millimeter waves, vacuum microelectronics/Nano-electronics devices, metamaterials / metasurfaces inspired and other emerging RF devices, measurement & diagnostic tools, as well as related areas.

VEDA-2019 Tracks:

The VEDA-2019, like its previous editions, will focus on new ideas and the latest developments for both academia and industry throughout the international community in the following topics, as listed below:

- Vacuum Electronic Devices (VEDs): Magnetron, Travelling wave Tubes, Klystron, Inductive output Tubes, Multiple-beam and sheet-beam devices, Fast-wave devices (Gyrotron, Gyro TWT etc.), free electron lasers and masers, High power microwave devices for directed energy, Power switches, Novel devices concepts.
- VED Applications: Defense and Space, Radar and Telecommunication, Particle accelerators, High energy physics, EMI/EMC test sources, Material processing, RF directed energy and microwave power beaming, novel applications of RF and microwaves.
- Electron Emitters for VEDs (different types of cathodes).
- High Voltage and Pulse Power Systems for VEDs.
- Plasma Assisted Devices such as DBDs, Plasma switches.
- Vacuum Systems and Technologies.
- Computer-aided Design and RF Measurements.
- Systems & Sub-system using VEDs.
- Electron Tube Technologies such as Mechanical Fabrication, Chemical.
- Processing, Vacuum Grade Materials and other techniques related to VEDs.
- Metamaterials / Metasurfaces inspired and other emerging RF devices.

Paper Details:

The softcopy of full paper (camera ready), in two-column IEEE format, typeset in 10pt Times New Roman font, single-spaced on A4 size, in 4-page limit, including authors' names and affiliation, abstract, figures, tables, references, in **PDF format through email**. Papers submitted will be peer-reviewed and published in symposium e-proceedings. Paper should be submitted through email (send to: **veda2019.nitp@gmail.com**).

Key Date:

- Paper Submission Starts: **August 15, 2019**
- Paper Submission Ends: **September 15, 2019**
- Notification of Acceptance: **October 15, 2019**
- Final Upload: **October 20, 2019**
- Registration: **October 31, 2019**
- Program Dispatch: **November 10, 2019**

About Venue:

National Institute of Technology Patna is one of the oldest Technological Institute of North India, whose history goes back to the year 1876 when four survey schools got established in India: Dacca, Hoogly, Cuttack and Patna. In the year 1886, Bihar School of Engineering got this present Patna campus. In 1924, the Engineering School got upgraded to Bihar College of Engineering (BCE) under Patna University. Recognizing its importance and potential, in the year 2004, MHRD, Govt of India upgraded this Bihar College of Engineering to National Institute of Technology of Bihar.

The institute is situated on the south bank of holy river Ganges behind Gandhi Ghat, one of the most important and reverential place of Patna. The campus has a picturesque river view with historic building presenting a spectacle of architectural delight and natural beauty.

Registration:

- VEDA Society Members: **Rs. 4000/-**
- Other Delegates: **Rs. 5000/-**
- Student Delegates: **Rs. 1500/-**
- Industry Delegates: **Rs. 6000/-**

Payment should be made through crossed demand draft in favor of "NIT Patna". For RTGS/NEFT Transfer, A/C No.50433562364, IFSC: ALLA0212286, Allahabad Bank, NIT Patna Campus.

Accommodation:

Accommodation for the participants can be arranged in NIT guest house, hostels or in hotels in the city, as per request and availability on paid basis.

Organizing committee

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