



**Call For Papers
for a Special Issue of
IEEE Transactions on Electron Devices
on
“Vacuum Electronics”**

This Special Issue of the *IEEE Transactions on Electron Devices*, scheduled for publication in June 2018, will feature the most recent developments and the state of the art in the field of Vacuum Electronics. The Special Issue will include submitted papers from the Vacuum Electronics community. Papers must be new and original material that has not been copyrighted, published or accepted for publication in any other archival publication, that is not currently being considered for publication elsewhere, and that will not be submitted elsewhere while under consideration by the *Transactions on Electron Devices*.

The areas of interest include, but are not limited to:

Vacuum Electronics Devices (VEDs)

- Slow-wave and fast-wave devices
- Microwave, mm-wave and THz devices
- CW and pulsed-power devices
- Free electron lasers and masers
- Plasma-filled devices
- Field-emission devices
- Components (guns, circuits, collectors)
- Electronic power conditioners and supplies
- Linearizers and system integration
- Reliability

Vacuum Electron Sources

- Thermionic cathodes
- Cold cathodes
- RF breakdown
- Photo cathodes
- Emission physics

Technologies

- Analysis and computer modeling
- Novel materials (dielectrics, etc.)
- Fabrication Techniques
- Measurement, intermodulation, noise

Submission instructions: Manuscripts should be submitted in a double column format using an IEEE style file. Please visit http://www.ieee.org/publications_standards/publications/authors/author_templates.html to download templates. Submit your paper at <http://mc.manuscriptcentral.com/ted> and be sure to indicate that it is a Special Issue paper in the selection type menu.

Website: http://vacuumelectronics.org/special_issue_2018.html

Submission Deadline: 31 October 2017

Publication Date: June 2018

Please direct all manuscripts, correspondence and communications to:

Marlene James
IEEE/EDS Publications Office
445 Hoes Lane,
Piscataway, NJ 08854 USA
Ph: +1 732 562 6830, FAX: +1 732 562 6831
Email: m.james@ieee.org

Guest Editors:

Dr. David R. Whaley

L3 Technologies, Electron Devices
960 Industrial Rd.
San Carlos, CA 94070 USA
david.whaley@L3T.com

Dr. David K. Abe

U.S. Naval Research Laboratory, Code 6850
4555 Overlook Ave. SW
Washington, DC 20375 USA
david.abe@nrl.navy.mil

Dr. Jinjun Feng

Beijing Vacuum Electronics Research Institute
13 Jiuxianqiao St.
Beijing, China 100015
fengjinjun@tsinghua.org.cn

Prof. Dr.-Ing. John Jelonnek

Institute for Pulsed Power and
Microwave Technology (IHM)
Karlsruhe Institute of Technology (KIT)
Kaiserstraße 12
76131 Karlsruhe, Germany
john.jelonnek@kit.edu

Dr. Lalit Kumar

Centre for Personnel Talent Management
Defence Research & Development Organization
North Delhi, Delhi, India
dr.kumarlalit@gmail.com