

Call for Papers

7th ITG International Vacuum Electronics Workshop (IVEW) 2020
and
13th International Vacuum Electron Sources Conference (IVeSC) 2020

May 26 - 29, 2020

Physikzentrum Bad Honnef (PBH), Bad Honnef, Germany (www.pbh.de)

organized by ITG-Fachausschuss MN 6 „Vacuum Electronics and Displays“
and the European Steering Committee of IVeSC



Information Technology Society (ITG) within VDE

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Topics of the Conference

New developments and applications of vacuum electronic devices as well as materials, technologies and manufacturing techniques such as:

- **Electron Emission Phenomena and Modelling**
- **Vacuum Electronic and Discharge Devices and their Applications**
- **Technologies and Production Processes in Vacuum Electronics**

SCHEDULE

Deadline for Submission of Abstracts	February 29, 2020
Notification of Acceptance	March 20, 2020
Deadline for Registration <u>and</u> Payment	April 24, 2020
Submission of Presentations in .pdf format for the Electronic Proceedings	May 26, 2020

Files (**abstracts and presentations**) shall be sent electronically. See abstract template (**sample paper abstract**) on Web Site.

The latest information on the conference and the final program can be found at the Web Site http://www.ihe.kit.edu/kooperationen_itg.php

Submitted papers should include but are not limited to the following areas of interest:

Electron Emission Phenomena and Modelling

- ◆ Thermionic and field emission
- ◆ Secondary electron emission
- ◆ Photoelectric and ferroelectric emission
- ◆ Emission from carbon
- ◆ Wide bandgap materials
- ◆ NEA/LEA materials
- ◆ Hollow cathodes for ion thrusters
- ◆ Gas discharge electrodes (lamps & lighting triple oxides, thoriated tungsten alternatives, electric propulsion,)

Vacuum Electronic and Discharge Devices and their Applications

- ◆ Microwave Tubes (TWTs, Klystrons, Fast-Wave Devices ...)
- ◆ Grid Controlled Tubes
- ◆ Vacuum Microelectronic and Nanoelectronic Devices
- ◆ Picture Tubes and Image Intensifiers
- ◆ X-Ray Tubes
- ◆ Pseudospark Devices
- ◆ Vacuum Arc Ion Sources
- ◆ High Current Diodes
- ◆ Pulsed Power Switching
- ◆ Gas Lasers and Gas Discharge Tubes
- ◆ Electric Space Propulsion
- ◆ Vacuum Interrupters and Spark Gaps

Technologies and Production Processes in Vacuum Electronics

- ◆ Laser-, Electron-Beam-, Ion-Beam- and Plasma Processing Systems
- ◆ Surface Analytics, Treatment, Evacuation and Getters
- ◆ Interconnection and Assembly Techniques
- ◆ Vacuum-Microelectronics and Vacuum-Nanoelectronics Technologies
- ◆ Cathode (production) technologies, materials and characterization

The paper should be suitable for **20 minutes of oral presentation**. Poster presentations are welcome. The conference language is **English**.

One-page abstracts should be submitted as .pdf-file electronically to Dr. W. Knapp, to Prof. Dr. M. Thumm and to Dr. J. M. Roquais giving a preference for **IVEW** or **IVeSC**, **not later than Feb. 29, 2020**.

Please indicate if you prefer a poster presentation.

<p>IVEW Chairman:</p> <p>Dr.-Ing. Wolfram Knapp</p> <p>Knapptron GmbH Vakuumelektronik Privatweg 3 39291 Möser, Germany</p> <p>Tel.: +49 (0)39222-4067 E-mail: dr.who.knapp@t-online.de</p>	<p>IVEW Vice Chairman:</p> <p>Prof. Dr. Dr. h.c. Manfred Thumm</p> <p>Karlsruher Institut für Technologie (KIT), Institut für Hochleistungsimpuls- und Mikrowellentechnik (IHM) Hermann-von-Helmholtz-Platz 1 76344 Eggenstein-Leopoldshafen, Germany</p> <p>Tel.: +49 (0)721 608-23630 Fax.: +49 (0)721 608-24874 E-mail: manfred.thumm@kit.edu</p>	<p>IVeSC Chairman:</p> <p>Dr.-Ing. Jean-Michel Roquais</p> <p>Thales AVS FR 2 Rue Marcel Dassault BP 23 78141 Vélizy-Villacoublay Cedex France</p> <p>Tel.: +33 (0)1 30 70 51 87 E-mail: jean-michel.roquais@thalesgroup.com</p>
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