



Jerusalem

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# 6<sup>th</sup> International Workshop on Mechanisms of Vacuum Arcs

## Jerusalem, Israel

### March 20 – 23, 2017

#### Confirmed keynote speakers:

- Prof. Victor Malka, Weizmann Institute of Science, Israel
- Dr. Steinar Stapnes, CERN, Switzerland
- Dr. Shin Kajita, IMASS, Nagoya University, Japan

**Abstract submission deadline**  
**Dec 1<sup>st</sup> 2016**

Vacuum arcs are a concern in essentially every vacuum electronic device. Sometimes they form the basis for device operation, but all too often they are the primary failure mode. Arc initiation and evolution is a multi-physics problem involving numerous mechanisms. These include electric and plastic dynamics of metal surfaces under intense electric fields, electron and neutral atom emission, plasma formation and plasma dynamics leading to full breakdown. The purpose of this workshop is to bring together experts to discuss the latest developments, from theory, simulation and experiments, in our understanding of the surface and plasma dynamics which underlie the vacuum arc process.

#### Specific topics include:

- High field devices, such as accelerators
- Mechanisms behind electrode material processing
- Material/electrode damage characterization
- Field emission and discharge initiation mechanisms
- Diagnostic and experimental methods for investigating breakdown, surface structure, and plasma constituents
- Modeling and simulation

#### SARAF visit – March 19

One day lab tour at the  
SARAF accelerator.  
Reg. deadline – Jan 15 2017

We welcome new participants with new perspectives and areas of investigation to advance our common goal. The multidisciplinary nature of vacuum arcs and vacuum devices provides a rich environment for finding physics of shared interest from multiple sources.

See web site for registration and abstract submission: <https://indico.cern.ch/e/mevarc>

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