



# Building a community



## International Workshop on Breakdown Science and High Gradient Technology (HG2015)

June 16-19, 2015  
Tsinghua University  
Beijing, China  
<https://indico.cern.ch/event/358352/>

**Meeting Chair**  
Tang, Chuanxiang

**International Organizing Committee**  
D'Auria, Gerardo (Sincrotrone Trieste)  
Gai, Wei (ANL)  
Higo, Toshiyasu (KEK)  
Tantawi, Sami (SLAC)  
Wuensch, Walter (CERN)

**Local Organizing Committee**  
Chen, Huaibi (Chair)  
Huang, Wenhui  
Shi, Jiuru  
Zhang, Liang  
Wang, Ping  
Fan, Xue

近春园







CLIC workshop, 29 January 2015

## Mechanisms of Vacuum Arcs-5

2-4 September, 2015



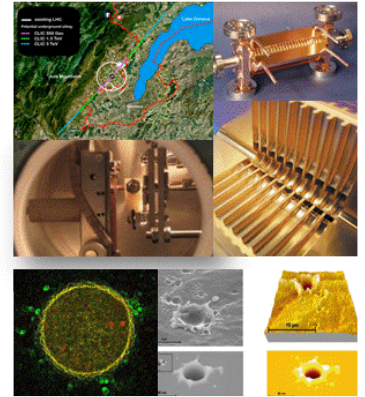
The workshop aims to combine the efforts of researchers in different fields to understand the mechanisms underlying the highly intriguing phenomenon of electrical breakdown. The workshop will cover rf and dc types of electrical breakdowns, including theory, experiment, and simulation. The workshop will be preceded by a half-day mini-school on modeling surface (electrode) evolution processes relevant to electrical breakdown phenomena.

### Topics

**Experiments:** vacuum arcs, dc spark systems, rf accelerating structures, materials, diagnostics, techniques and technologies for high gradients, and arcing in fusion devices.


**Theory and simulations:** surface modification under electric and electromagnetic fields, PIC and PIC-DSMC plasma simulations, dislocation activity, plasma-wall interactions, and surface damage and evolution.

**Applications:** particle accelerators, discharge-based devices, electrostatic failure mitigation, fusion devices, satellites and other industrial interests.



### Venue

The workshop will be held in Saariselkä, Lapland. Lappish ruska is the time of beautiful autumn colors.



### Organizers

Flyura Djurabekova  
HIP, University of Helsinki, Finland  
Walter Wuensch, Sergio Calatroni  
CERN, Switzerland  
Matthew Hopkins  
Sandia National Laboratories, USA  
Yinon Ashkenazy  
Hebrew University of Jerusalem, Israel

<http://indico.cern.ch/conferenceDisplay.py?confid=246618>



Walter Wuensch, CERN