

## **Session Program**

**15-19 Sept 2019**



## **8th International Workshop on Mechanisms of Vacuum Arcs (MeVArc 2019)**

### ***Experiment and Diagnostics - Applications***

Orto Botanico - Padova

Via Orto Botanico, 15 - 35123 Padova, Italy GPS: 45.399444, 11.879807 Orto Botanico - [http://  
www.ortobotanicopd.it/en/](http://www.ortobotanicopd.it/en/)

## Tuesday 17 September

08:30

### Experiment and Diagnostics - Applications: Oral # 5

Session | Location: Orto Botanico - Auditorium

08:30–09:10 **Diagnostics of hot anode surface by optical methods**

**Speaker**

Dr Sergey Gortschakow

09:10–09:30 **Field estimation and the statistical analysis of dark currents**

**Speaker**

Sagy Itschak Lachmann

09:30–09:50

**Spectroscopic and Microscopic Observations of Anode Behaviors in Vacuum Breakdown**

**Speaker**

Mr Zhipeng Zhou

10:00

10:30

### Experiment and Diagnostics - Applications: Oral # 6

Session | Location: Orto Botanico - Auditorium

10:30–10:50

**Vacuum breakdown voltage distributions between different contact arrangements and materials**

**Speaker**

Dr Erik Taylor

10:50–11:10 **Precision high voltage platform for ion mass analysis**

**Speaker**

Marco Cavenago

11:10–11:30

**Roles and Physical Processes of Anodes in the Initial Stage of Vacuum Breakdowns**

**Speaker**

Zhenxing Wang

11:30–11:50

**HVDC insulation between shaped electrodes separated by large vacuum gaps**

**Speaker**

Dr Nicola Pilan

12:15

## Wednesday 18 September

08:30

### Experiment and Diagnostics - Applications: Oral #8

Session | Location: Orto Botanico - Auditorium

08:30-09:10

#### Study on the post-arc sheath and the post-arc current in vacuum interrupters

**Speaker**

Prof. Shenli Jia

09:10-09:30

#### Simulations of vacuum arcs with liquid-metal cathodes

**Speaker**

Dr Vladimir Kolobov

09:30-09:50

#### Study on breakdown phenomenon of high energy ions bombarding electrode

**Speaker**

Ao Xu

09:50-10:10

#### Generalizing Models of Vacuum Arcs

**Speaker**

Jim Norem

10:15

10:45

### Experiment and Diagnostics - Applications: Oral # 9

Session | Location: Orto Botanico - Auditorium

10:45-11:15

#### Theory of electric field breakdown nucleation: mobile dislocation population dynamics and atomic simulations

**Speaker**

Eli Engelberg

**Location**

Orto Botanico - Auditorium

11:15-11:45

#### Numerical Simulation of the Initial Phase of Unipolar Arcing in Fusion Relevant Conditions

**Speaker**

Dr Helena Kaufmann

**Location**

Orto Botanico - Auditorium

11:45-12:15

#### Diffusion on metal surfaces under high electric fields

**Speaker**

Ekaterina Baibuz

**Location**

Orto Botanico - Auditorium

12:35

12:15-12:25

## Direct Field Ionisation

### Speaker

Sergio Calatroni

## Thursday 19 September

14:00

### Experiment and Diagnostics - Applications: Oral #12

Session | Location: Orto Botanico - Auditorium

14:00-14:40 **Recent progress at pulsed dc systems**

**Speaker**

Iaroslava Profatilova

14:40-15:00 **Preliminary results from the cryogenic pulsed dc system**

**Speaker**

Marek Jacewicz

15:00-15:20

#### STATISTICAL ANALYSIS OF CURRENT AND X-RAYS SIGNALS FOR A VACUUM HIGH VOLTAGE HOLDING EXPERIMENT

**Speaker**

silvia spagnolo

15:20-15:30

#### X-rays spectrum characterization during high voltage conditioning in vacuum insulated system using high rate detectors

**Speaker**

Gabriele Croci

15:30

16:00

### Experiment and Diagnostics - Applications: Oral # 13

Session | Location: Orto Botanico - Auditorium

16:00-16:20

#### Micromachined Surface-Flashover Ion Source Based on MEMS Technology

**Speaker**

Prof. Yajun Wang

16:20-16:40

#### Plasma cleaning of Cu surfaces before and after conditioning with DC pulses

**Speaker**

Anton Saressalo

16:40-17:00

#### Breakdown Measurements in High-Gradient RF Test Stands

**Speaker**

Lee Millar

17:30