

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

Monday, 16 September 2019

Field Emission - Modeling and Simulations: Oral #1 (08:30 - 10:00)

| time | [id] title | presenter |
|-------|-------------------------------------------------------------------------------------|--------------------------------------------|
| 08:30 | [124] First principles calculations of field emission from a defected metal surface | DJURABEKOVA, Flyura KYRITSAKIS, Andreas |
| 09:10 | [88] Suggestions about the role of carbon nanowhiskers in electrical breakdown | Dr FORBES, Richard |
| 09:30 | [85] Consideration of the origin of enhanced field emission | WUENSCH, Walter |
| 09:50 | [74] Field electron emission in an external magnetic field parallel to the surface | LEBEDYNSKA, Yuliia |

Field Emission - Modeling and Simulations: Oral # 2 (10:30 - 12:15)

| time | [id] title | presenter |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 10:30 | [69] Observations on the link between cathode plastic activity and arc nucleation | ASHKENAZY, Yinon |
| 11:10 | [110] Investigations of the transition from field electron emission to plasma discharges (glow discharges and micro-arcs) with extended use of the Fowler-Nordheim plot | Dr KNAPP, Wolfram |
| 11:30 | [122] Does field emission from 'real' surfaces affect the high-pressure air breakdown in electric power equipment? | Dr BENILOV, Mikhail |
| 11:50 | [94] The Breakdown Induced by Rupture of Dielectric layer (BIRD) model: insights and future developments | Dr SPADA, emanuele |

Field Emission - Modeling and Simulations: Oral # 3 (14:00 - 15:30)

| time | [id] title | presenter |
|-------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------|
| 14:00 | [87] A "nearly semi-quantitative" explanation of electrical breakdown effects reported by Julius Caesar and Pliny the Elder | Dr FORBES, Richard |
| 14:40 | [77] 3D Modeling of field electron emission from a micro/nano structured surface | MOFAKHAMI, Darius |
| 15:00 | [104] Field Emission and Multipactor Simulations in High Gradient RF Accelerators | Mr BANON CABALLERO, David |
| 15:20 | [108] COMSOL simulation of the surface flashover in a MEMS insulator | GUO, Xiaoli |