



[WD3] Atmospheric Pressure Discharges and Thermal Plasmas

Date / Time	July 25 (Wed.), 2018 / 15:30-17:30
Place	Room D (#115)
Session Chair(s)	Jong-Shinn Wu (Nat'l Chao Tung Univ., Taiwan) Ho Jun Kim (Dong-A Univ., Korea)

WD3-1 [Invited]

15:30-16:00

3D Particle Simulations and Analysis of Streamer Discharge in Atmospheric Air

Anbang Sun

Xi'an Jiaotong Univ., China

WD3-2

16:00-16:20

Simulation of Nanosecond Pulse Discharge in Air Using Advanced Plasma Models

Bernard Parent

Pusan Nat'l Univ., Korea

WD3-3

16:20-16:40

Modelling of Plasma-Species Mixing in Argon-Steam Arc Discharge for Broad Range of Currents and Argon Mass Flow Rates

Jiri Jenista¹, Hidemasa Takana², Satoshi Uehara², Hideya Nishiyama², Milada Bartlova³, Vladimir Aubrecht³, and Anthony Murphy⁴

¹*Inst. of Plasma Physics ASCR, v.v.i., Czech*, ²*Inst. of Fluid Science, Japan*, ³*Brno Univ. of Tech., Czech*,

⁴*CSIRO Materials Science and Engineering, Australia*

WD3-4

16:40-17:00

Study on the Influence of the Turbulent-Dominated Gas Flow on the Characteristics of Atmospheric Pressure Plasma Jet

Yanhui Wang¹, Yuanyuan Jiang¹, Qinglin Wen¹, Yuantao Zhang², and Dezhen Wang¹

¹*Dalian Univ. of Tech., China*, ²*Shandong Univ., China*

WD3-5 [Invited]

17:00-17:30

Numerical Study on Generation of Very Large Currents in Atmospheric Pulsed VHF Discharges

Yuantao Zhang and Shuhan Gao

Shandong Univ., China