



Institute of Pulsed Power Science, Kumamoto University

International Symposium on Interdisciplinary Pulsed Power

March 10 & 11, 2016, at Lecture Room(1F), Kyoyotou Kurokami 1

March 10 (Thursday)

09:30-09:40 Welcome address

Dr. Hidenori Akiyama, Director of Institute of PPS

09:40-10:30 Dynamic deformation of porous materials
subjected to impact loading

Dr. Zoran Ren, University of Maribor, Slovenia

10:30-11:20 Interactions of Pulsed Discharge Plasma with
Liquids

Dr. Petr Lukes, Institute of Plasma Physics, Czech

11:30-12:20 High frequency high power converters for
industrial applications

Dr. Firuz Zare, Danfoss, Denmark

13:40-14:30 Approaches for localized delivery to solid tumors:
opportunities and challenges

Dr. Hamid Ghandehari, Univ. of Utah, USA

14:30-15:20 Bioprocessing of microalgae by millisecond
pulsed electric field (ms PEF)

Dr. Justin Teissie, Institute of Pharmacology and Structural
Biology, France

15:30-16:00 Molecular mechanisms of cell death induced by
nanosecond pulsed electric fields

Dr. Keiko Morotomi-Yano, Institute of PPS

16:00-16:30 Calcium uptake on HeLa cells according to
electric field using High speed camera

Dr. Alexis Guionet, Institute of PPS

16:30-17:00 Applications on bioelectrics using pulsed electric
field and discharge plasma

Dr. Douyan Wang, Institute of PPS

March 11 (Friday)

09:30-10:00 Characteristics of plasma streamers propagating
along water surface

Dr. Petr Hoffer, Institute of PPS

10:00-10:30 Development of novel molecular transformation
techniques using pulsed discharges for the synthesis of
made-to-order functional molecules

Dr. Mitsuru Sasaki, Institute of PPS

10:30-11:00 Investigation of the shock response of solid
material by measuring a shock-wave profile

Dr. Nobuaki Kawai, Institute of PPS

11:10-11:40 Material science as revealed by ultrafast laser
spectroscopy

Dr. Daisuke Kosumi, Institute of PPS

11:40-12:10 Environmental applications of nanosecond
pulsed discharge

Dr. Takao Namihira, Institute of PPS