

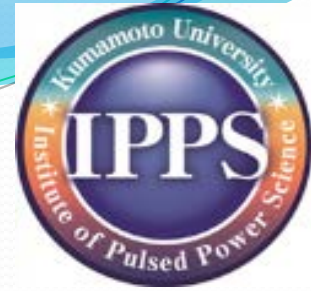
IPPS International Symposium on Interdisciplinary Pulsed Power

March 9, 2020 (Mon)

Kurokami Campus, Kumamoto University

Kurokami South W3 Bldg.,

(Academic Commons Kurokami Building 1) Room 203



Scope

Institute of Pulsed Power Science is going to be changed as Institute of Industrial Nanomaterials this April and the symposium this time is arranged as the kick-off of the new organization. The symposium provides an opportunity to share the trends on the cutting edge of pulsed power research and nanomaterials such as 2D materials and nano-sheets, which are introduced by world's distinguished researchers.

Program

Opening 9:55-

Session 1; Dynamic materials processing

10:00-10:50 Keynote lecture (through SKYPE)

Fabrication of graphene through pulsed discharge in water

Prof. Pengwan Chen, Beijing Institute of Technology, P.R. China

10:50-11:20 Invited lecture

Understanding the microstructure of explosively welded materials using numerical simulation

Prof. Ivan Bataev, Novosibirsk State Technical University, Russia

Session 2; Baioelectrics

11:30-12:00 Invited lecture

Primary biological impacts of pulsed electric fields and their applications to non-thermal food process

Prof. Sunao Katsuki, Kumamoto University

12:00-12:30 Invited lecture

Prospects and challenges of laser/ultrasound/shock-wave assisted nanoparticle/gene/drug delivery

Prof. Hamid Hosano, Kumamoto University

12:30-14:00 Lunch time

Session 3; Nano-sheet I

14:00-14:50 Keynote lecture

NanoEngineered Materials

Prof. Pulickel M. Ajayan, Rice University, USA

14:50-15:20 Invited lecture

Diverse applications of carbon materials

Prof. Kamal K. Kar, IIT-Kanpur, India

Session 4; Nano-sheet II

15:30-16:00 Invited lecture

Theoretical study of novel properties emerging in structure-controlled graphene

Prof. Hiroyuki Yokoi, Kumamoto University

16:00-16:30 Invited lecture

2D adlayer formation of water-insoluble nanographenes using "molecular container"

Prof. Soichiro Yoshimoto, Kumamoto University

16:30-17:00 Invited lecture

Self-assembled 2D MOF/COF nanosheet materials based on soft-solution process

Prof. Masashi Kunitake, Kumamoto University

17:00-17:30 Invited lecture

Preparation of oxynitride nanosheet for water splitting

Prof. Shintaro Ida, Kumamoto University

Closing 17:30-

**Organized by Institute of Pulsed Power Science,
Kumamoto University**

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