

21st Century Center of Excellence (COE) Program
International Workshop on Bioelectrics

November 12 ; Kurokami Sougou Kenkyutou 204, Kumamoto University

< Invited Talks >

9:00-9:40 Prof. Karl H. Schoenbach, Old Dominion University, USA
"Subcellular effects of nanosecond electrical pulses"

9:40-10:20 Prof. Hansjoachim Bluhm, Forschungszentrum Karlsruhe, Germany
"Efficient exploitation of plant cells by pulsed electric fields"

10:20-10:30 Break

10:30-11:10 Prof. Stephen J. Beebe, Eastern Virginia Medical School, USA
"Cell and tissue responses to nanosecond pulsed electric fields"

11:10-11:50 Prof. James E. Thompson, University of Missouri, USA
"Life sciences and pulsed power research at the University of Missouri"

11:50-13:30 Lunch

13:30-14:10 Prof. Tammo Heeren, Old Dominion University, USA
"Pulsed power generators for bioelectrics applications"

14:10-14:30 Prof. Junya Suehiro, Kyushu University, Japan
"Application of dielectrophoresis and electropermeabilization to rapid detection of bacteria"

14:30-14:50 Prof. Shinji Katsura, Toyohashi University of Technology, Japan
"Sample recovery from miniaturized reactors by using a focused pulsed laser"

14:50-15:00 Break

< COE Member's Talks >

15:00-15:20 Prof. Hidenori Akiyama, Kumamoto University, Japan
"Environmental and medical applications of pulsed power"

15:20-15:40 Prof. Tetsuya Taga, Kumamoto University, Japan
"Regulation of neural stem cells"

15:40-16:00 Prof. Hiroyoshi Takano, Kumamoto University, Japan
"Effects of pulsed streamer-like discharge to cyanobacterium living in fresh water"

16:00-16:20 Prof. Sunao Katsuki, Kumamoto University, Japan
"Biological effects of burst intense RF fields on CHO cells"