

<Plenary, Invited>

**Friday, May 23**

**Venue: Nara Prefectural New Public Hall ( Conference Room1 )**

<b>Time</b>	<b>Abstract No.</b>	<b>Presenting Author (Affiliation, Country)</b>	<b>Title</b>
<b>CHAIR: S. Reuter</b>			
<b>Session 1</b>	<b>Plenary</b>		
13:45-14:15	1-1P	Jean-Michel Pouvesle (Université d'Orléans, France)	LIF and fast imaging atmospheric pressure plasma jet characterization relevant to NTP biomedical applications
<b>Invited</b>			
14:15-14:35	1-2I	Ryo Ono (The University of Tokyo, Japan)	Measurement of Radicals in Atmospheric-Pressure Nonthermal Plasma for Plasma Medicine
14:35-14:55	1-3I	Jörn Winter (Centre for Innovation Competence plasmatis at INP Greifswald, Germany)	Gas phase diagnostic: one side of the coin in understanding plasma-liquid interaction
14:55-15:15	1-4I	Tomoyuki Murakami (Tokyo Institute of Technology, Japan)	Kinetic chemistry modelling for plasma medicine
15:15-15:35	1-5I	Se Youn Moon (Chonbuk National University, Republic of Korea)	Measurement of electron density and temperature using continuum radiation emitted from atmospheric pressure plasmas
<b>CHAIR: Th. v. Woedtke</b>			
<b>Session 2</b>	<b>Plenary</b>		
16:00-16:30	2-1P	Erik Neyts (University of Antwerp, Belgium)	Molecular Dynamics Simulations of Plasma - Biomolecule Interactions
<b>Invited</b>			
16:30-16:50	2-2I	Kai Masur (INP Greifswald / ZIK plasmatis, Germany)	Challenges for the Modeling of Plasma Cell Interactions with Respect to ROS Detection in Living Cells
16:50-17:10	2-3I	Malte U. Hammer (ZIK plasmatis @ INP Greifswald, Germany)	Biophysical investigations on the modification of membranes by plasma-treated liquids
17:10-17:30	2-4I	Ken-ichi Yano (Kumamoto University, Japan)	Molecular Mechanisms Underlying Cellular Responses to Nanosecond Pulsed Electric Fields - Signal Transduction, Stress Response, and Cell Death -

## Saturday, May 24

Venue: Todaiji Culture Center ( Kinsho Hall )

Time	Abstract No.	Presenting Author (Affiliation, Country)	Title
<i>CHAIR: P. Lukes</i>			
<b>Session 3</b>	<b>Plenary</b>		
9:00-9:30	3-1P	David Graves (UC Berkeley, USA)	Mass Transfer Effects in Low Temperature Plasma - Liquid Interactions
<b>Invited</b>			
9:30-9:50	3-2I	Deborah O'Connell (University of York, UK)	Absolute measurements of short-lived reactive species in cold atmospheric pressure plasmas
9:50-10:10	3-3I	Kristian Wende (ZIK plasmatis - INP Greifswald, Germany)	Determining the biological impact and equivalence of plasma sources - benefits & shortcomings of cell based assays
10:10-10:30	3-4I	Kenji Ishikawa (Nagoya University, Japan)	Electron Spin Resonance Study of Plasma-Liquid Medium Interactions
<i>CHAIR: K. Kitano</i>			
<b>Session 4</b>	<b>Plenary</b>		
11:00-11:30	4-1P	Peter Bruggeman (University of Minnesota, USA)	Cold atmospheric pressure plasma jets: diagnostics and interaction with substrates
11:30-12:00	4-2P	Thomas von Woedtke (INP Greifswald, Germany)	Understanding of complex reaction chains of biological effects of cold atmospheric pressure plasma as a key precondition to establish plasma sources as medical devices
12:00-12:30	4-3P	Petr Lukes (Institute of Plasma Physics AS CR, Czech Republic)	Chemical Diagnostics of Aqueous Liquids Treated by Air Discharge Plasmas
<i>CHAIR: D. Graves</i>			
<b>Session 5</b>	<b>Plenary</b>		
14:00-14:30	5-1P	Katsuhisa Kitano (Osaka University, Japan)	Physicochemical property of plasma treated water (PTW) with the reduced pH method for safety and strong disinfection
<b>Invited</b>			
14:30-15:00	5-2I	Young June Hong (Kwangwoon university, Korea)	Measurement of electron temperature by using collisional radiative model and hydroxyl radical density of ultraviolet absorption spectroscopy in nonthermal atmospheric Ar plasma jet

<b>Time</b>	<b>Abstract No.</b>	<b>Presenting Author (Affiliation, Country)</b>	<b>Title</b>
<b>CHAIR: E. Neyts</b>			
<b>Session 6</b>	<b>Invited</b>		
15:10-15:30	6-1I	Margarita Baeva (INP Greifswald e. V., Germany)	Characterization of Microwave Plasma Sources for Biomedical Applications
15:30-15:50	6-2I	Markus Becker (INP Greifswald, Germany)	Modelling of an rf excited atmospheric pressure plasma jet