



日独交流160周年
Jahre Freundschaft
Deutschland – Japan

Date	Time (JST)	Talks/Speakers	Chair
29.10.	10:30-11:00 (17:30-18:00)	Welcome/Introduction: <i>Uwe Czarnetzki (5+10), Satoshi Hamaguchi (5),</i> Welcome CRC1316: <i>Achim von Keudell (15)</i>	
	11:00-13:00 (18:00-20:00)	<u>Microwave application to liquid process in reduced pressure environment</u> <i>Hiroataka Toyoda, Nagoya University</i> <u>A non-neutral regime of radio-frequency atmospheric pressure plasma jets: Simulation and modeling</u> <i>Ralf Peter Brinkmann, RUB</i> <u>Diagnostics of negative ions in atmospheric-pressure plasmas produced in ambient air</u> <i>Koichi Sasaki, Hokkaido University</i> <u>The challenge of identifying plasma catalysis mechanisms</u> <i>Achim von Keudell, RUB</i>	<i>Satoshi Hamaguchi (Osaka University), Uwe Czarnetzki (RUB)</i>
05.11.	10:00-12:00 (18:00-20:00)	<u>Ignition of nanosecond discharges in liquids: optical analysis at different voltage polarities</u> <i>Katharina Grosse, RUB</i> <u>Innovation in ultra-precision machining through "Plasma nanoManufacturing Process"</u> <i>Kazuya Yamamura, Osaka University</i> <u>Electric field, power and reactive species in a surface dielectric barrier discharge for plasma catalysis</u> <i>Judith Golda, RUB</i> <u>Pulsed Power Applications for Agriculture and Food Processing</u> <i>Koichi Takaki, Iwate University</i>	<i>Nikita Lepikhin (RUB)</i>

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12.11.	10:00-12:00 (18:00-20:00)	<p><u>Validation of streamer discharge simulation with measurements</u> Ryo Ono, University of Tokyo</p> <p><u>Modification of biologically-relevant targets by atmospheric pressure plasmas: in search of the active components</u> Andrew Gibson, RUB</p> <p><u>Plasma Catalysis for Power to X</u> Hyun-Ha Kim, AIST</p> <p><u>Modeling of radio-frequency plasma jets: from fluid to kinetic hybrid models</u> Thomas Mussenbrock, RUB</p>	Judith Golda (RUB)
19.11.	10:00-12:00 (18:00-20:00)	<p><u>How to approach to the transport parameter of electrons in a low-temperature collisional plasma subject to time-varying field?</u> Toshiaki Makabe, Keio University</p> <p><u>Plasma-enhanced catalysis of CO₂ as a new concept of electricity-driven chemical reaction</u> Tomohiro Nozaki, Tokyo Institute of Technology</p> <p><u>Knowledge based process control in technological highfrequency plasmas by Voltage Waveform Tailoring</u> Julian Schulze, RUB</p> <p><u>Process control in micro atmospheric pressure RF plasma jets</u> Ihor Korolov, RUB</p>	Ryo Ono (University of Tokyo)
25.11.	09:00-12:00 (17:00-20:00)	Poster Session	Kota Tamura (Nagoya University), Hansin Bae (Nagoya University), Jan Kuhfeld (RUB)
26.11.	10:00-12:00 (18:00-20:00)	<p><u>Breakdown and quasi-DC phase of a nanosecond discharge</u> Nikita Lepikhin, RUB</p> <p><u>Vibrational excitation in a nanosecond discharge</u> Jan Kuhfeld, RUB</p> <p><u>Plasma Generation and Chemistry of Reactive Nitrogen Species for Agricultural Applications</u> Keisuke Takashima, Tohoku University</p> <p><u>Molecular dynamics simulations of the permeation characteristics of plasma active species into biological membranes</u> Satoshi Uchida, Tokyo Metropolitan University</p>	Andrew Gibson (RUB)

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03.12.	10:00-12:00 (18:00-20:00)	<p><u>Restoring germination rate of heat-stressed seeds by low temperature plasma treatment</u> <i>Masaharu Shiratani, Kyushu University</i></p> <p><u>Interaction between ultrahigh density, non-thermal atmospheric pressure plasma and organic solutions for cancer therapy</u> <i>Masaru Hori, Nagoya University</i></p> <p><u>Gas cleaning with catalytic plasma processes</u> <i>Peter Awakowicz, RUB</i></p> <p><u>Ro-vibrational excitation of CO2 in transient ns-discharges by laser absorption spectroscopy</u> <i>Yanjun Du, RUB/NCEPU</i></p>	<p><i>Tomohiro Nozaki (Tokyo Institute of Technology)</i></p>