## $OS5: Advanced\ Applications\ of\ Multi-functional\ Fluids$

November 8, 2019

OS5-1 9:00-9:20  Numerical Simulation of a Cement Kiln Reactor Combined with Arc Plasm Torches for Greenhouse Gases Treatment Juyoung Ko, Yong Hee Lee, Tae-Hee Kim, Sooseok Choi (Jeju National Universit Korea)	
OS5-2 9:20-9:40 Plasma Assisted Milling of Hard-to-machine Metals, Inconel 600 and Mangane Steel.  Min-Gyu Choi, Sang-Min Chung, In-Mok Yang, Jun-Seok Nam, Shi-Young Yang Jun-Ho Seo (Chonbuk National University, Korea)	
OS5-3 Effects of Rotated Arc Jets on Coating Quality in Plasma Spraying Process 9:40-10:00 Takayasu Fujino, Hikaru Matsumoto (University of Tsukuba, Japan)	
OS5-4 Numerical Study of Pre-ionized Inert Gas Plasma MHD Power Generation 10:00-10:20 Hajime Suzuki, Yoshihiro Okuno (Tokyo Institute of Technology, Japan)	
OS5-5 10:40-11:20 Selective Generation of Metastable Excited Species in Hybrid Plasmas for Plasma Chemistry and Plasma Catalysis Applications (Invited) Igor V. Adamovich, Elijah Jans, Kraig Frederickson, Ilya Gulko (Ohio Statuniversity, USA)	
OS5-6 11:20-11:40  Pilot-Scale Investigation of Semi-Dry Plasma-Chemical DeNO <sub>x</sub> Process for Gla Melting Furnace Flue Gas Tomoyuki Kuroki (Osaka Prefecture University, Japan), Hashira Yamamoto (Niho Yamamura Glass Co., Ltd., Japan), Hidekatsu Fujishima, Masaaki Okubo (Osal Prefecture University, Japan)	on
OS5-7 Cellulose Nanofibrils Decorated with Metallic Nanoparticles for Environment Monitoring and Remediation (Invited) Anthony B. Dichiara, Jin Gu, Hai-Lei Cao (University of Washington, USA)	al
OS5-8 13:50-14:10  Electric Field- Assisted Alignment of Cellulose Nanofibrils and Carbon Nanotub in a Flow Focusing System  Heather Wise (University of Washington, USA), Hidemasa Takana (Tohol University, Japan), Anthony Dichiara (University of Washington, USA)	
OS5-9 14:10-14:30 Computational Simulation on Control of Cellulose Nano Fibril by Alternative Electric Field Hidemasa Takana, Mengfei Guo (Tohoku University, Japan)	ve
OS5-10	of

OS5-11 15:10-15:30	Optical Investigations of Primary Breakup in Liquid Sprays  Noritsune Kawaharada (Leibniz University Hannover, Germany), Hidemasa Takana (Tohoku University, Japan), Friedrich Dinkelacker (Leibniz University Hannover, Germany)
OS5-12 15:30-15:50	Liquid Flow and Particle Transport Control in Nanouidic Channels Kentaro Doi, Satoyuki Kawano (Osaka University, Japan)
OS5-13 15:50-16:10	Thermal Flow of Temperature-Sensitive Magnetic Fluids around a Heating Pipe in the Presence of an Inhomogeneous Magnetic Field  Yuhiro Iwamoto, Hayaki Nakasumi, Yasushi Ido (Nagoya Institute of Technology, Japan), Xiao-Dong Niu (Shantou University, China)