

23 SEPTEMBER 2012

16:00 – 19:00	Registration
19:00 - 21:00	Welcome Party

24 SEPTEMBER 2012

08:15 - 08:25	Opening
08:25 - 08:35	J. S. Chang Lecture Award Ceremony
08:35 - 09:10	<p>Special Session, Chairman: J. Mizeraczyk <i>J.S. Chang's Award Lecture</i> Pierre Atten Electrohydrodynamics of dispersed drops of conducting Liquid: from drop deformation and interaction to emulsion evolution</p>
09:10 - 10:10	<p>Session 1 (EHD of Two-Phase Flows) Chairmen: G. Touchard, P. Garcia-Sanchez</p>
09:10 - 09:30	<p><i>Oral presentation</i> Rochish Thaokar Drop translation, deformation and breakup under quadrupole electric field</p>
09:30 - 09:50	<p><i>Oral presentation</i> Sarah Nangle-Smith The Influence of the electrophoretic and polarisation forces on two phase flow redistribution in a horizontal annular tube</p>
09:50 - 10:10	<p><i>Oral presentation</i> Gerard McGranaghan Visualisation of EHD augmented flow within a transparent heat exchanger</p>
10:10 - 10:30	Coffee break
10:30 - 13:05	<p>Session 2 (EHD of Two-Phase Flows, Gas Flows, Pumping and Convection) Chairmen: J. Cotton, K. Yasuoka</p>
10:30 - 11:05	<p><i>Invited lecture</i> Jamal Yagoobi EHD pumping in macro, micro and nano scales</p>
11:05 - 11:25	<p><i>Oral presentation</i> Feifei Fu Multi-scale resolution of electrostatic signal and pressure signal of dense phase pneumatic conveying of coal powder</p>

11:25 - 11:45	<i>Oral presentation</i> Chan Ching Effect of doping ferrocene in the working fluid of electrohydrodynamic micropumps
11:45 - 12:05	<i>Oral presentation</i> Thomas Hammer EHD flow control of high pressure gas flows
12:05 - 12:25	<i>Oral presentation</i> Ilya Ashikhmin Physical principles of the EHD pump injection type
12:25 - 12:45	<i>Oral presentation</i> Vladimir Chirkov Electrohydrodynamic mechanism of electric conduction
12:45 - 13:05	<i>Oral presentation</i> Toshiyuki Kawasaki Basic study on generation and sterilization of sheet type plasma jet-like DBD under atmospheric pressure
13:05 - 14:05	Lunch
14:05 - 16:00	Session 3 (Aerospace Applications) Chairmen: J. Yagoobi, K. Adamiak
14:05 - 14:40	<i>Invited lecture</i> Eric Moreau EHD plasma actuators
14:40 - 15:00	<i>Oral presentation</i> Annie Leroy Enhancement of lift and drag performances of a NACA0012 airfoil by multi-DBD plasma actuator with additional floating interelectrodes
15:00 - 15:20	<i>Oral presentation</i> Konstantinos Kourtzanidis Numerical modeling of plasma actuators for flow control - The plasma synthetic jet
15:20 - 15:40	<i>Oral presentation</i> Soghra Rezazadeh An study of splitter plate in the wake as an EHD actuator behind the cylinder
15:40 - 16:00	<i>Oral presentation</i> Morteza Rahmanpour Numerical simulation of single emitter taylor cone-jet for electrospray thruster applications

<p>16:30 - 18:00</p>	<p>Poster session Chairman: M. Bai Student Poster Prize Committee: G. Touchard, A. Mizuno, K. Yan.</p>
	<p><i>Posters</i></p> <p>Artur Berendt Comparison of EHD devices with parallel and in series spiked electrodes</p> <p>Pablo García-Sánchez Microwave-induced flows in microsystems</p> <p>Pablo García-Sánchez Measurements of the electrical conductivity of Isopar L at different temperatures</p> <p>Ryoichi Hanaoka Cooling Effect of Heating Element Based on EHD Pump-Drive Liquid Circulation</p> <p>Yoshio Higashiyama Negative corona discharge from a water droplet with or without resonant vibration</p> <p>Michał Janke Cooling of electronic chips by electrohydrodynamic flow of dielectric liquid</p> <p>Anatol Jaworek Induction charging for charged spray generation</p> <p>Ho-Young Lee Prediction and pattern analysis of air flow and discharge phenomena with conducting obstacle by using ehd analysis</p> <p>So-Hee Lee Generalized electrohydrodynamics analysis employing finite element method for dielectric liquid discharge propagation</p> <p>Annie Leroy Three-dimensional ionic wind induced by DBD plasma actuator using serrated design electrode</p> <p>Branislav Pongráč Electro-spraying of water with streamer corona discharge</p> <p>Mateusz Tański 3D reconstruction of positive corona streamer using stereo photography and computer algorithms</p> <p>Hiroaki Tsubone Performance characteristics of partially covered wire - parallel plate electrodes type electrohydrodynamic gas pumps</p>

19:00 - 22:00	Gala Dinner

25 SEPTEMBER 2012	
08:30 - 10:05	Session 4 (EHD Atomization, Electrification and ESP) Chairmen: E. Moreau, T. Oda
08:30 - 09:05	<i>Invited lecture</i> Wamadeva Balachandran Electrohydrodynamic atomisation and applications
09:05 - 09:25	<i>Oral presentation</i> Gerard Touchard Melting ice flow electrification
09:25 - 09:45	<i>Oral presentation</i> Luca D'Addio Temperature effects on wet electrostatic scrubbing of submicron particles: preliminary results
09:45 - 10:05	<i>Oral presentation</i> ELSTATIK Does splash filling cause electrostatic ignition dangers?
10:05 - 10:25	Coffee break
10:25 - 12:55	Session 5 (Electrostatic Precipitation) Chairmen: A. Mizuno, S. Kanazawa
10:25 - 11:00	<i>Invited lecture</i> Keping Yan EHD flow problems inside ESP and energy saving for fine particle collection
11:00 - 11:35	<i>Invited lecture</i> Kazimierz Adamiak Numerical simulation of electrohydrodynamic phenomena in electrostatic precipitaton
11:35 - 11:55	<i>Oral presentation</i> Pablo García-Sánchez Electrorotation of metallic microparticles
11:55 - 12:15	<i>Oral presentation</i> Sven Kaiser CFD-modeling of electrostatic precipitation under quenched conditions in coaxial wire-cylinder-configuration

12:15 - 12:35	<i>Oral presentation</i> Takuya Kuwahara Single-stage simultaneous removal of gases and particulates in wet-type plasma-chemical reactor
12:35 - 12:55	<i>Oral presentation</i> Mindong Bai Treatment of oceanic introduced organisms for ships' ballast water of 250 t/h based on strong ionization discharge
13.00 – 14.00	Lunch
14:00 – 17:30	City tour
18:00 – 22:00	Barbecue

26 SEPTEMBER 2012	
08:30 – 10:10	Session 6 (EHD Fundamentals and Environmental Applications) Chairman: T. Hammer, K. Yan.
08:30 – 08:50	<i>Oral presentation</i> Tetsuji Oda Optical diagnosis of high pressure non-thermal plasma
08:50 – 09:10	<i>Oral presentation</i> Ninghui Wang Numerical simulation of heat transfer and fluid flow in an AC submerged arc furnace for MgO production
09:10 – 09:30	<i>Oral presentation</i> Andrey Samusenko Peculiarities of streamer branching in electric field of different non-uniformity
09:30 – 09:50	<i>Oral presentation</i> Andrey Samusenko Computer simulation of the corona discharge seat form
09:50 – 10:10	<i>Oral presentation</i> Artur Berendt Comparison of circular and rectangular narrow esps with longitudinal wire electrode
10:10 – 10:30	Coffee break
10:30 – 12:30	Session 7 (EHD Environmental Applications) Chairman: V. Balachandran, K. Urashima
10:30 – 10:50	<i>Oral presentation</i> Koichi Yasuoka Synchronization control of plasma generation in gas bubble
10:50 – 11:10	<i>Oral presentation</i> Seiji Kanazawa Improvement of surfactant decomposition by superposition of pulsed discharge on the water and ozone injection
11:10 – 11:30	<i>Oral presentation</i> Rayendra Anandika Electrical Properties of Floating and Wire Electrode in Surface DBD and Their Influence for NO Removal
11:30 – 11:50	<i>Oral presentation</i> Yan Wu Oxidation of ammonium sulfite using multi-needle-to-plate negative dc corona discharge reactor

11:50 – 12:10	<i>Oral presentation</i> Helena Oi Lun Li Formation of carbon nano particles by solution plasma in organic solutions
12:10 – 12:30	<i>Oral presentation</i> Shou Feng Tang Regeneration of granular activated carbon using an up-scaled dielectric barrier discharge
12:30 – 13:00	Closing ceremony
13:00 – 14:00	Lunch