

PROGRAM

International Workshop on Electro-Hydrodynamics and Triboelectrostatics

Thursday 1st September

1st session

Chairman: **Anthony Richardson**

Hour	title	speaker
8h00-8h40	Registration	
8h40-8h45	Opening session	
8h45-9h30	1st plenary lecture Fluid and particles motion versus electrical quantities.	Gérard Touchard
9h30-9h55	Stability of subcritical electrohydrodynamics in dielectric fluids.	Mengqi Zhang
9h55-10h20	Thermo-electrohydrodynamic convection in a differentially heated vertical slot.	Harunori Yoshikawa
10h20-10h50	COFFEE BREAK	COFFEE BREAK
10h50-11h15	Electrode's arrangement impact on heat transfer enhancement in horizontal channels.	Rahma Gannoun
11h15-11h40	Estimation of the injection law using dynamical current-voltage characteristics.	A.V. Gazaryan
11h40-12h05	Changing of the ionic wind direction in accordance with the inclination of the corona-producing electrode.	I.A. Elagin
12h05-12h30	Dynamical current-voltage characteristics and their application for the investigation of EHD phenomena.	Vladimir Chirkov
12h30-14h00	LUNCH	LUNCH

2nd session

Chairman: **Miguel Angel Sanchez Quintanilla**

Hour	title	speaker
14h00-14h45	2nd plenary lecture Electrohydrodynamics of dispersed drops of conducting liquid: from drops deformation and interaction to emulsion evolution.	Pierre Atten
14h45-15h10	Antonio Castellanos and Galilean Electromagnetism : A Historical Perspective.	Germain Rousseaux
15h10-15h35	Long jets generated by ac electric fields in a microfluidic flow-focusing junction.	Pablo García-Sánchez
15h35-16h00	COFFEE BREAK	COFFEE BREAK
16h00-16h25	Experimental study of Electrohydrodynamic conduction pump with a symmetric geometry.	Sachin Modh
16h25-16h50	Validation of the Particle Image Velocimetry (PIV) for flow control around NACA 0015 with EHD actuator in silicone oil.	Clément Gouriou
16h50-17h15	Air gap modeling in a uniform electrical field with silicone and glass Barriers under direct voltage in very	Talit Boughani

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19h30---	GALA DINNER at “Les Archives”	
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Friday 2nd September

3rd Session

Chairman: **Pédro Vazquez / Philippe Traoré**

Hour	title	speaker
8h45-9h30	3 rd plenary lecture Electrohydrodynamics: equations and their application to paradigmatic flows.	Alberto Pérez
9h30-9h55	Lattice Boltzmann modelling of electro-hydrodynamic flows in dielectric liquids.	Jian Wu
9h55-10h20	EHD conduction pumping in microchannels.	Pédro Vazquez
10h20-10h50	COFFEE BREAK	COFFEE BREAK
10h50-11h15	EHD flow caused by field-enhanced dissociation: computer simulation and PIV investigation.	S.A. Vasilkov
11h15-11h40	A preliminary plasma based flow control simulation study with Oracle3D.	Umesh Set
11h40-12h05	Numerical simulation and experimental study of EHD flow generated by microplasma actuator.	Kazuo Shimizu
12h05-12h30	A Consistent Fluid Approach (CFA) to model electrical discharges.	Francisco Durán-Olivencia
12h30-14h00	LUNCH	LUNCH

4th Session

Chairman: **Pablo Garcia Sanchez**

Hour	title	speaker
14h00-14h45	4 th plenary lecture Water flows induced by AC electric fields in microsystems.	Antonio Ramos
14h45-15h10	Tribo-electrostatic separation of mixed granular insulators.	Lucien Dascalescu
15h10-15h35	Discrete element modeling of triboelectric charging of insulating materials in vibrated granular beds.	P. Traoré
15h35-16h00	COFFEE BREAK	COFFEE BREAK
16h00-16h25	Measurement of electric charge in gas dispersed particles using Particle Tracking Velocimetry.	Miguel Angel Sanchez Quintinilla
16h25-16h50	Electric charge limits on settled powders.	Javier Pérez
16h50-17h15	Electrostatic and other basic interactions of remote particles.	Elena F. Grekova