



# HAKONE XI

11<sup>th</sup> International Symposium on High Pressure, Low  
Temperature Plasma Chemistry

## Scientific Program

**September 7-12, 2008**  
**Oléron Island, France**



### Sunday

08:00	
09:00	
10:00	
11:00	
12:00	
13:00	
14:00	
15:00	
16:00	
17:00	
18:00	shuttle service from La Rochelle
19:00	Registration & Welcome cocktail
20:00	dinner

### Monday

08:00	breakfast
09:00	Opening Ceremony Invited Lecture
10:00	oral session I coffee break
11:00	oral session II
12:00	
13:00	lunch
14:00	Bike rentals
15:00	poster session I
16:00	coffee break oral session III
17:00	Bike rentals
18:00	
19:00	free time
20:00	dinner

### Tuesday

08:00	breakfast
09:00	Invited Lecture
10:00	oral session IV coffee break
11:00	poster session II
12:00	
13:00	lunch
14:00	Bike rentals
15:00	oral session V
16:00	coffee break oral session VI
17:00	
18:00	free time
19:00	Scientific Committee Meeting
20:00	dinner

### Wednesday

08:00	breakfast
09:00	Invited Lecture
10:00	oral session VII coffee break
11:00	oral session VIII
12:00	
13:00	
14:00	Excursion
15:00	
16:00	
17:00	
18:00	free time
19:00	
20:00	Cocktail & Conference dinner

### Thursday

08:00	breakfast
09:00	Invited Lecture
10:00	oral session IX coffee break
11:00	poster session III
12:00	
13:00	lunch
14:00	
15:00	oral session X
16:00	coffee break oral session XI
17:00	
18:00	free time
19:00	
20:00	Bike rentals
	dinner

### Friday

08:00	breakfast
09:00	Invited Lecture
10:00	oral session XII coffee break
11:00	oral session XIII Closing Ceremony
12:00	Bike rentals
13:00	shuttle service to La Rochelle
14:00	
15:00	
16:00	
17:00	
18:00	
19:00	
20:00	

## **CONFERENCE TOPICS**

- 1: Fundamental Problems of High Pressure Discharges
- 2: Modeling and Diagnostics
- 3: Molecular Synthesis and Decomposition
- 4: Ozone Generation and Applications
- 5: Generation of Radiation in High Pressures Discharges
- 6: Depollution and Environmental Applications
- 7: Surface Processing and Technology (Cleaning, Coating, Etching and Modification Equipment)
- 8: Biological Applications
- 9: Miscellaneous

**MONDAY, 8 SEPTEMBER 2008**

**08:30 Opening Ceremony**

**08:50** Miles R.B., Opaits D., Shneider M.N., Zaidi S.H.  
IL-1 Non-thermal atmospheric pressure plasmas for aeronautic applications (**Invited Lecture**)

**Oral session I: Topic 1**

**09:30** Temnikov A.G., Sokolova M.V., Orlov A.V.  
1-1 Experimental Investigation of Characteristics of an Impulse Streamer Corona Stem Using Artificial Cloud of Charged Aerosol

**09:50** Santos Sousa J., Bauville G., Lacour B., Puech V., Touzeau M.  
1-2 Atmospheric Pressure Generation of O<sub>2</sub>(a<sup>1</sup>Δ<sub>g</sub>) by Microplasmas

**10:10 Coffee break**

**Oral session II: Topic 7**

**10:30** Nessim C., Boulos M., Kogelschatz U.  
7-2 In-flight Coating of Nanoparticles in Atmospheric-Pressure DBD Torch Plasmas

**10:50** Girard-Lauriault P.-L., Unger W.E.S., Lippitz A., Desjardins P., Wertheimer M.R.  
7-3 Chemical Characterisation of Nitrogen-Rich Plasma-Polymer Films Deposited in Dielectric Barrier Discharges at Atmospheric Pressure

**11:10** Kogoma M., Tuji K., Tanaka K.  
7-6 Surface Modification of Polyethylene Powder by Atmospheric Pressure Glow (APG) Discharge during Addition of Bromine

**11:30** Vangeneugden D., Dubreuil M., Bongaers E., Wasbauer I., Issaris A., Eevers W.  
7-10 Development of Eco-Friendly Alternative Release Liners for Pressure Sensitive Adhesive Tapes using DBD Coating Deposition

**11:50** Herbert P.A.F.  
7-12 An Investigation of Droplet Behaviour in the Deposition of Functional Coatings using Atomised Liquid Precursors in Cool, Atmospheric Pressure Plasma

**12:10 Lunch**

**14:00-15:40 Poster Session I**

1-3 Krivov S.A., Sokolova M.V.  
Influence of Surface Charges on Electric Field Distribution in Gas near Dielectric Surface

1-6 Kozlov K.V., Tatarenko P.A., Samoilovich V.G.  
Radiation Kinetics of the "Hot" Molecules N<sub>2</sub>(C<sup>3</sup>Π<sub>u</sub>)<sub>v=0</sub> in the Barrier Discharge in Humid Argon at Atmospheric Pressure

2-1 Čech J., Sahel P., Navrátil Z.  
Space and time resolved optical emission spectroscopy of diffuse coplanar barrier discharge

2-4 Slavicek P., Brablec A., Skacelova D., Klima M., Kapicka V.  
Diagnostics of two configuration of plasma pencil

2-5 Célestin S., Bonaventura Z., Guaitella O., Bourdon A., Rousseau A.  
Influence of surface charges on the structure of a dielectric barrier discharge in air at atmospheric pressure: experiment and modeling

2-6 Obradović B.M., Ivković S.S., Kuraica M.M.  
Electric Field Measurement in a Dielectric Barrier Discharge in Helium and Helium-Hydrogen Mixture

2-7 Diatczyk J., Komarzyniec G., Stryczewska H.D.  
Specific Conditions of GlidArc Plasma Spectral Diagnostics

3-1 Młotek M., Sentek J., Krawczyk K., Schmidt-Szałowski K.  
Plasma-catalytic Non-oxidative Methane Coupling in Gliding Discharges Enhanced by Pd and Pt Catalysts

- 4-2 *Gnapowski E., Stryczewska H.D.*  
Ozone generator with mesh metal electrodes and porous dielectrics
- 4-3 *Hensel K., Machala Z., Tardiveau P.*  
Capillary Microplasmas for Ozone Generation
- 5-2 *Wieser J., Görtler A., Heindl T., Krücken R., Mitschke S., Morozov A., Schramm E., Sklorz M., Skrobol C., Ulrich A., Zimmermann R.*  
Low Energy Electron Beam Excited Light Sources - VUV Light Emission Characteristics and Applications
- 5-4 *Beleznai Sz., Richter P., Balázs L.*  
New Modulated Pulsed Driving signal for Efficient Excitation of DBD Discharges
- 6-1 *Keping Sun, Ming Sun*  
Research on Improving the Removal Efficiency of SO<sub>2</sub> from Flue Gas in Corona Discharge Processes by OH Radical
- 6-2 *Krawczyk K., Ulejczyk B., Song H.K., Lamenta A., Paluch B., Schmidt-Szałowski K.*  
Trichloromethane Conversion in Plasma-Catalytic System
- 6-3 *Lamenta A., Jodzis S., Krawczyk K., Schmidt-Szałowski K.*  
Carbon Tetrachloride Decomposition in Pulsed Spark Discharge
- 6-4 *Mok Y.S., Demidyuk V., Whitehead J.C.*  
Decomposition of Hydrofluorocarbons in a Dielectric-Packed Plasma Reactor
- 6-5 *Piroi D., Magureanu M., Mandache N.B., Parvulescu V.I.*  
Decomposition of methylene blue by a dielectric barrier discharge
- 6-6 *Blin-Simiand N., Jorand F., Magne L., Pasquiers S., Postel C.*  
Removal of Formaldehyde in Air by Homogeneous and Filamentary Pulsed Discharges
- 7-13 *Kováčik D., Zahoranová A., Buček A., Černák M.*  
Permanent Hydrophilic Treatment of PP Nonwovens Using Atmospheric-pressure Plasma Generated in Ambient Air by Diffuse Coplanar Surface Barrier Discharge Operating in Continuous Regime
- 7-14 *Maechler L., Sarra-Bournet C., Enache I., Massines F., Gherardi N.*  
Deposition of dual-layer of SiO<sub>x</sub>/SiOC<sub>x</sub>N<sub>y</sub>H<sub>z</sub> by Townsend Dielectric Barrier Discharge
- 7-15 *Sarghini S., Paulussen S., Terryn H.*  
DBD Atmospheric Plasma Deposition of Antibacterial Coatings
- 7-17 *Lee J.H., Kim Y.S., Oh J.S., Kyung S.J., Yeom G.Y.*  
Characteristics of silicon dioxide thin films deposited by atmospheric pressure plasma enhanced chemical vapour deposition using PMDS/O<sub>2</sub>/He
- 7-20 *J. Larrieu, S. Pouliquen, P. Lecouivre, S. Quoizola, N. Naudé, F. Massines*  
Influence of NH<sub>3</sub>/SiH<sub>4</sub> ratio on amorphous silicon nitride coatings deposited with Ar/NH<sub>3</sub>/SiH<sub>4</sub> homogeneous DBD
- 8-5 *Vrajova J., Novotny N., Chaloupkova L., Krcma F., Stahel P.*  
Utilization of Atmospheric Pressure Dielectric Barrier Discharge for Paper Sterilization

**15:40** **Coffee break**

**Oral session III: Topic 3**

- 16:00** *Aubry O., Khacef A., Cormier J.M.*  
3-4 Propane conversion in DBD: experiments and modelling
- 16:20** *Jasiński M., Dors M., Mizeraczyk J.*  
3-5 Production of Hydrogen via Methane Conversion using Atmospheric Pressure Microwave Plasma Source with CH<sub>4</sub> swirl
- 16:40** *Fournaud B., Tatibouët J.M., Rossignol S., Thollon S.*  
3-6 Influence of dielectric balls in dielectric barrier discharge reactor over plasma mechanism and ethanol conversion
- 20:30** **Dinner**

## TUESDAY, 9 SEPTEMBER 2008

**08:30** *Naidis G.V.*  
IL-2 *Simulation of streamers and sparks in air (Invited Lecture)*

### Oral session IV: Topic 4

**09:10** *Salvermoser M., Kogelschatz U., Murnick D.*  
4-1 *Influence of Humidity on Photochemical Ozone Generation with 172nm Xenon Excimer Lamps*

**09:30** *Orszagh J., Skalny J.D., Cingel M., Mason N.J.*  
4-4 *The effect of reactor temperature on ozone concentration produced by DC corona discharges fed by oxygen*

**09:50** *Murayama K., Matsumura N., Taguchi M., Kato Y., Teranishi K., Suzuki S., Itoh H.*  
4-5 *Experimental Investigations of Ozone Zero Phenomenon*

**10:10** *Coffee break*

### 10:30-12:10 Poster Session II

1-8 *Célestin S., Liu N.Y., Bourdon A., Pasko V.P., Ségur P., Marode E.*

*Efficient models for photoionization produced by streamer discharges in air*

1-9 *Bernecker B., Callegari T., Blanco S., Fournier R., Boeuf J.P.*

*Hexagonal and Honeycomb Structures in Dielectric Barrier Discharges*

2-9 *Pirpiliu Neagoe G., Brablec A., R'ahel J., Slav'icek P.*

*Plasma Diagnostics of Underwater Electrical Diaphragm Discharge for Fabrics Treatment*

2-11 *Jansky J., Trunec D., Navratil Z., Brandenburg R., Wagner H.-E.*

*Numerical Simulation of Atmospheric Pressure Townsend Discharges in Nitrogen with Hydrogen Gas Admixtures*

2-13 *Lazzaroni C., Guaitella O., Aubert X., Sadeghi N., Marivov D., Rousseau A.*

*Coupling of imaging and emission spectroscopy for microplasmas and microjets studies*

2-14 *Cermak P., Rakovsky J., Annusova A., Martisovits V., Veis P.*

*Time resolved broadband spectroscopy of nitrogen dielectric barrier discharge around atmospheric pressure*

2-15 *Gherardi N., Es-Sebbar Et., Sarra-Bournet C., Naudé N., Massines F., Tzyganov D., Ségur P., Pancheshnyi S.*

*Active species generation of homogeneous DBD in N<sub>2</sub>: experiment and modelling*

3-2 *Gallon H.J., Whitehead J.C.*

*Non-Thermal Plasma Processing For the Conversion of Hydrocarbons*

4-6 *Jodzis S.*

*Ozone Synthesis in Discharges on Dielectric Surface*

4-7 *Fijalkowski S., Ozonek J.*

*Non-equilibrium aspects of ozone generation in silent discharges*

6-15 *Leštinská L., Machala Z., Zahoran M., Martišovits V.*

*Waste Carbon Treatment by Atmospheric Pressure Microwave Plasma*

6-19 *Gnokam F., Moussa D., Brisset J.L., Doubla A.*

*Plasma-chemical Degradation of Slaughterhouse Effluents by Gliding Discharge*

6-20 *Jaroszyńska-Wolińska J., Kumar M.*

*Quantum Chemical Modeling of the Ozone-Based NO<sub>x</sub> Oxidation Process*

6-21 *Oukacine L., Tatibouët J.M.*

*Propene Oxidation using various Configurations of a Surface Dielectric Barrier Discharge Reactor*

6-24 *Dang T.H., Denat A., Lesaint O., Teissedre G.*

*Pulsed electrical discharges in water for removal of organic pollutants: a comparative study*

6-25 *Stara Z., Pajurkova J., Vrajova J., Krcma F.*

*Plasma Treatment of Organic Dye Solutions by Diaphragm Discharge*

- 6-26 *Pawlat J., Ihara S., Yamabe C.*  
Treatment of dyes and surfactants in Foam
- 7-1 *Dams R., Rego R., Vangeneugden D.*  
Deposition of Thin Coatings with Atmospheric Pressure Plasmaline®
- 7-4 *Tanaka K., Kogoma M.*  
The deposition mechanism of atmospheric pressure glow plasma polymerized polyhexafluoropropene
- 7-5 *Tanaka K., Manabe A., Kogoma M.*  
Development of Adhesive-Free Lamination Technique Using a Plasma Surface Treatment at Atmospheric Pressure
- 7-7 *Bauville G., Rohani V., Lacour B., Puech V., Duminica F.D., Silberberg E.*  
Study of steel surface coating with a Dielectric Barrier Discharge at atmospheric pressure
- 7-18 *Kim Y.S., Lee, J.H., Oh J.S., Yeom G.Y.*  
Deposition of SiO<sub>2</sub>-like thin films at low temperature by remote-type atmospheric pressure PECVD using HMDS/Ar/He/O<sub>2</sub>
- 9-2 *Komarzyniec G., Stryczewska H.D., Janowski T.*  
Comparison of the features of arc plasma reactor powered from transformer and inverter type supplier
- 9-4 *Morvova M., Morva I., Kosinar I., Kunecova D., Kolesarova N., Biskupicova V., Martins Joao M.S., Morvova M. jr.*  
Pyrolysis of olive mill solid waste with non-thermal plasma based exhaust cleaning

**12:10 Lunch**

**Oral session V: Topics 1 & 2**

- 14:00 *Sokolova M.V., Kozlov K.V., Krivov S.A., Tatarenko P.A., Samoylovich V.G.*  
1-4 Spatially and Temporally Resolved Emission Spectroscopy of Localized Surface Discharge in Dry Air
- 14:20 *Allegraud K., Leick N., Guaitella O., Rousseau A.*  
1-5 Imaging of streamers propagation on a dielectric surface
- 14:40 *Kashiwagi Y., Itoh H.*  
1-7 Origin of Vacuum Ultraviolet Light Effective for Synchronization of Positive Surface Streamers
- 15:00 *Starostin S., ElSabbagh M.A.M., Antony Premkumar P., de Vries H., Paffen R.M.J., Creatore M., van de Sanden M.C.M.*  
1-11 Formation and evolution of the glow-like dielectric barrier discharge at atmospheric pressure
- 15:20 *Reichen P., Sonnenfeld A., Rudolf von Rohr Ph.*  
2-2 Statistical Description of Barrier Discharges at Atmospheric Pressure

**15:40 Coffee break**

**Oral session VI: Topics 7 & 8**

- 16:00 *Fanelli F., Di Renzo G., Fracassi F., d'Agostino R.*  
7-16 Atmospheric Pressure PECVD of Fluorocarbon Thin Films: Influence of Air and Water Vapour Impurities
- 16:20 *Brandenburg R., Lange H., Weltmann K.-D.*  
8-1 On the Antimicrobial Effect of UV- and VUV-Emissions Generated by a Non-thermal Plasma Jet in Argon
- 16:40 *Machala Z., Jedlovský I., Pongráč B., Chládeková L., Giertl D., Šikurová L.*  
8-2 Various DC Discharges for Sterilization at Atmospheric Pressure
- 20:30 **Dinner**

**WEDNESDAY, 10 SEPTEMBER 2008**

**08:30** *Borra J.P.*  
IL-3 Atmospheric Pressure Plasmas for Aerosols Processes in Materials and Environment  
**(Invited Lecture in honour of Michel Lecuiller)**

**Oral session VII: Topic 6**

**09:10** *Jögi I., Bichevin V., Laan M., Haljaste A., Käämbre H., Sabre V.*

6-12 Removal of NO by simultaneous action of Dielectric-Barrier Discharge and TiO<sub>2</sub> photocatalyst

**09:30** *Ostapczuk A., Licki J., Chmielewski A.G.*

6-16 Application of non-thermal plasma generated by electron beam for PAH removal from flue gas

**09:50** *Morvova M., Morva I., Kosinar I., Morvova M. jr.*

6-17 Plasma technologies for reducing CO<sub>2</sub> emissions in Synergy with renewable energy sources

**10:10** ***Coffee break***

**Oral session VIII: Topic 2**

**10:30** *Brockhaus A., Sauerbier, R., Engemann J.*

2-3 Comparison of Three Excitation Schemes for Cylindrical Dielectric Barrier Discharges

**10:50** *Lagmich Y., Callegari Th., Pitchford L.C., Boeuf J.P.*

2-8 Evolution of the Wall Voltage on a DBD for Flow Control: Experimental and Numerical Investigations

**11:10** *Hoder T., Šíra M., Kozlov K.V., Wagner H.-E.*

2-10 3-D spatially resolved investigation of the coplanar barrier discharge in synthetic air by cross-correlation spectroscopy

**11:30** ***Excursion***

**19:30** ***Conference Dinner***

## **THURSDAY, 11 SEPTEMBER 2008**

**08:50** *Massines F., Gherardi N., Naudé N., Ségur P.*  
IL-4 Recent Advances in the Understanding of Homogeneous Dielectric Barrier Discharges  
(Invited Lecture in honour of Iwo Pollo)

### **Oral session IX: Topic 8**

**09:30** *Brisset J.L., Moussa D., Doubla A., Hnatiuc B., Kamgang Youbi G., Herry J.M., Naitali M.,  
8-3 Bellon Fontaine M.N.*  
Chemical reactions induced by discharge and temporal post discharge in water treated by  
gliding arc in humid air

**09:50** *Paulussen S., Heyse P., Raffin J.P., Sels B.*  
8-4 Dielectric Barrier Discharges as a Straightforward Tool for Immobilization of Proteins

**10:10** **Coffee break**

### **10:30-12:10** **Poster Session III**

1-10 *Janda M., Machala Z., Pai D., Stancu G.D., Lacoste D., Laux C.O.*  
Transient spark discharge in air

1-12 *Enache I., Caquineau H., Gherardi N., Naudé N., Massines F.*  
The influence of the flow dynamics on deposition uniformity in Townsend discharge at  
atmospheric pressure

2-18 *Maurau R., Duday D., Choquet P., Migeon H.-N., Arefi-Khonsari F.*  
Behaviour of the CN emission with the discharge regime

2-19 *Avtaeva S.V., Kulumbaev E.B.*  
Characteristics of the Similar DBDs in Ne/Xe Mixture

2-20 *Avtaeva S.V., Kulumbaev E.B.*  
Effect of the AC Voltage Amplitude and Frequency on the Xe DBD characteristics

2-21 *Nakamiya T., Sonoda Y., Ikegami T., Mitsugi F., Ebihara K., Tsuda R.*  
The Acoustic Signal Measurements and Analysis in Atmospheric Pressure Plasma

2-24 *Rubio S.J., Quintero M.C., Rodero A.*  
Estimation of the Rotational Temperatures in an Argon Plasma at Atmospheric Pressure  
during the Destruction of Trichloroethylene

3-3 *Allegraud K., Guaitella O., Leick N., Rousseau A.*  
Comparison between volume and surface DBDs for C<sub>2</sub>H<sub>2</sub> removal

3-7 *Horvath G., Skalny J.D., Mason N.J. and Zahoran M.*  
Formation of solid deposits on high voltage corona discharge electrode in positive corona  
discharge fed by mixture of CH<sub>4</sub> and N<sub>2</sub>

4-8 *Youssef J., Bouamra-Benzahra K., Makarov M., Guaitella O., Rousseau A.*  
Ozone production in Dielectric Barrier Discharge (DBD): influence of dielectric material

6-7 *Magne L., Blin-Simiand N., Gadonna K., Jeanney P., Jorand F., Pasquiers S., Postel C.*  
OH kinetics in photo-triggered discharges used for VOCs conversion

6-8 *Suzuki S., Itoh H.*  
Determination of Collisional Quenching Rate Coefficient of N<sub>2</sub>(A) by formaldehyde

6-9 *Krawczyk K., Skrzymowska J., Pasierowska E.*  
Nitrous oxide processing in pulsed semi-corona-catalysts conditions

6-10 *Kuraica M.M., Obradović B.M., Sretenović G., Kovačević V., Dojčinović B., Manojlović D.*  
Direct and Indirect Oxidation Methods for Simultaneous NO, NO<sub>2</sub> and SO<sub>2</sub> Removal from  
Coal-Burning Flue Gas

6-11 *Tochikubo F.*  
Numerical Simulation of Plasma-Assisted Selective Catalytic Reduction of Nitrogen Oxides

6-13 *Laminski S., Doubla A., Nzali S., Njoyim E., Kamsu-Kom J., Brisset J.-L.*  
Degradation of Some Industrial Food Dyes from Synthetic Wastewater by Gliding Electric  
Discharge at Atmospheric Pressure

- 6-14 Jidenko N., Borra J.P.  
Corona and Dielectric Barrier Discharges for aerosol charging
- 7-8 Trunec D., Sira M., Stahel P., Bursikova V.  
Deposition of Thin Films in Atmospheric Pressure Homogeneous Discharge
- 7-9 Brandenburg R., Stieber M., Kindel E., Ehlbeck J., Foest R., Weltmann K.-D.  
RF-driven Plasmas at Atmospheric Pressure for the Treatment of Structures with High Aspect Ratios
- 7-11 Sarra-Bournet C., Gherardi N., Turgeon S., Laroche G., Massines F.  
Deposition of Functional Polymer Films using C<sub>2</sub>H<sub>4</sub>/N<sub>2</sub> Townsend Dielectric Barrier Discharge
- 7-19 Kyung S.J., Oh J.S., Lee J.H., Yeom G.Y.  
Increasing the Hydrophobicity of Photoresist/glass Surface using a N<sub>2</sub>/CF<sub>4</sub> Pin to Plate Dielectric Barrier Discharge treatment at Atmospheric Pressure
- 9-5 Hnatiuc B., Burlica R., Hnatiuc E., Brisset J.L., Neacsu I., Niculaua M.  
The wine treatment by DBD discharges
- 9-6 Ozonek J., Jaholkowski K., Piotrowicz A.  
Degradation of selected odorous compounds from municipal wastewater plants in low temperature plasma

**12:10 Lunch**

**Oral session X: Topics 2 & 9**

- 14:00 Makasheva K., Hagelaar G.J.M., Boeuf J.-P., Callegari Th., Santos Sousa J., Puech V., Muñoz  
2-12 Serrano E., Pitchford L.C.  
Plasma properties of MicroCathode Sustained Discharges in argon at atmospheric pressure
- 14:20 Pancheshnyi S., Eismann B., Hagelaar G.J.M., Pitchford L.C.  
2-16 ZDPlasKin: a new tool for plasmachemical simulations
- 14:40 van Veldhuizen E.M., Nijdam S., Luque A., Brau F., Ebert U.  
2-17 3-D Properties of Pulsed Corona Discharges
- 15:00 Li Z.-L., Bonifaci N., Aitken F., Denat A., Atrazhev V.M., van Haeften K, Shakhato V.A.  
9-1 Spectroscopic investigation of corona discharge in liquid Helium
- 15:20 Ceccato P., Rousseau A.  
9-3 Experimental study of air bubble breakdown in water

**15:40 Coffee break**

**Oral session XI: Topic 6**

- 16:00 Lukes P., Clupek M., Babicky V., Tothova I., Janda V.  
6-18 Role of Solution Conductivity in Production of H<sub>2</sub>O<sub>2</sub> by Pulsed Corona Discharge in Water
- 16:20 Yamabe C., Nakazaki S., Ihara S.  
6-22 Water Treatment using a Pulsed Power Technology
- 16:40 Goujard V., Tatibouët J.M., Batiot-Dupeyrat C.  
6-23 Valorisation of biogas using a Non-Thermal Plasma

**20:30 Dinner**

**FRIDAY, 12 SEPTEMBER 2008**

**08:50** Černák M.  
IL-5 Diffuse Coplanar Surface Barrier Discharge and Its Applications for in-line processing of low-added-value materials (**Invited Lecture**)

**Oral session XII: Topic 5**

**09:30** Ulrich A., Heindl T., Krücken R., Morozov A., Skrobal C., Wieser J.

5-1 Electron Beam Induced Light Emission

**09:50** Bhosle S., Piquet H., Diez R., Lomaev M.I., Tarasenko V.F., Zissis G.

5-3 Efficiency computation of current controlled excilamps

**10:10** *Coffee break*

**Oral session XIII: Topic 2**

**10:30** Gaychet S., Bessieres D., Paillol J., Celestin S., Bourdon A., Lemont F.

2-22 Numerical simulation of negative streamer in point to plane electrode system

**10:50** Schenk A., Visser M., Kroker Th., Gericke K.-H.

2-23 Progress report: Time and space resolved detection of NH-Radicals in an RF-driven glow discharge using combined CRD and 2-D LIF-spectroscopy

**11:10** *Closing Ceremony*