



ELECTROSTATICS 2009

11th International Conference on Electrostatics

Valencia, Spain, 26th -29th May 2009

CONFERENCE GUIDE

Organized by:



Sponsors:



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Electrostatics 2009

WELCOME

The Local Organizing Committee and the Working Party “Static Electricity in Industry” are very happy to welcome you to Valencia for the XIth International Conference on Electrostatics – Electrostatics 2009. The International Conference on Electrostatics is a quadrennial conference that has been successfully held around Europe in the last 40 years.

We hope the Conference will provide to all the attendants a unique interdisciplinary forum for discussion about the electrostatic phenomena and their industrial applications. This conference is an excellent opportunity to review progress and discuss future trends with researchers and users working worldwide in many scientific and technical areas. Besides, the interdisciplinary composition of the conference gives the best opportunity to get inspired by solutions in other fields and promote relationships for innovation and breakthroughs.

We are very proud to welcome you to Valencia, where you can also enjoy the warm weather and the Mediterranean Sea in a dynamic city full of history and art.

Pedro Llovera
Conference Chairman



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COMMITTEES & ORGANIZATION

Conference Chairman:

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Local Scientific Committee:

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Gustavo Ortega Braña (ITE)
Francisco Magraner Bella (ITE)
Cristina García Sánchez (ITE)
Ricardo Díaz Calleja (ITE -Universidad Politécnica de Valencia)
Marta Carsí Rosique (ITE-Universidad Politécnica de Valencia)

Local Organizing Committee:

Asunción Pellicer Morant (ITE)
Cristina García Sánchez (ITE)
Ángel Quijano López (ITE).

International Steering Committee:

Chairman

Martin Glor (Swiss Inst. for the Promotion of Safety and Security., Switzerland)

Secretary

Istvan Berta (Budapest Univ. of Tech. and Economic, Hungary),

Members

Jaakko Paasi (VTT, Technical Research Centre, Finland)
Lars Fast (SP Technical Research Institute, Sweden)
Juliusz B. Gajewski (Wroclaw University of Technology, Poland)
Brian Makin (University of Dundee, United Kingdom)
Didier Marty-Dessus (Université Paul Sabatier, France)
Ulrich Von Pidoll (Physikalisch-Technische Bundesanstalt, Germany)
Klaus Schwenzfeuer (Safety Laboratory F. Hoffmann-La Roche Ltd, Switzerland)
Gérard Touchard (Université de Poitiers, France).
Pedro Llovera Segovia (ITE)



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WORKSHOP

A workshop will be held on May 26th, before the conference. Lectures and demonstrations will be given by experts on basics of Electrostatics, Hazards and ESD. It will take place at the 6C building ground floor (see University Map page 16).

Workshop contents:

- 9h-11h: *Basics of Electrostatics*
Prof. T. B. Jones
University of Rochester (USA)
- 11h-11h30: *Coffee break*
- 11h30-13h: *Explosions & Hazards*
Dr. M. Glor
Swiss Institute for the Promotion of Safety & Security (Switzerland)
- 13h-14h: *Lunch (catering in 6C building floor plant)*
- 14h-15h30: *ESD*
J. Smallwood.
Electrostatic Solutions Ltd (UK)
- 15h30-16h00: *Coffee break*
- 16h00-17h00: *Electrostatics & Fireworks industry*
S. Massip
Electrostática.net (Spain)
- 17h00-17h30: *Incidents at Gasoline Stations*
A. Thulin.
Anders Thulin Consulting AB (Sweden)



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CONFERENCE PROGRAMME

Wednesday, 27th May 2009.

8h-9h30: Registration & Opening Ceremony.

9h30-11h: Oral Session 1 “Hazards & ESD”.

Chairman: Lars Fast. Co-chairman: Edgar Chacón

Invited Lecture: Istvan Berta. *Use of Soft Computing Methods in Risk Assessment of Electrostatic Fire and Explosion Hazards in Industries.*

O1-1 M. Glor. *Ignition Source Static Electricity - Incident Investigation.*

O1-2 J. Paasi, T. Kalliohaka, M. Glor. *Chargeability of Ethanol-Petrol Biofuels.*

O1-3 I. D. Pavey. *Propagating Brush Discharges in Flexible Pipes.*

11h-11h30: Coffee

11h30-13h: Oral Session 2 “Hazards & ESD”.

Chairman: Martin Glor. Co-chairman: Francisco Magraner

O2-1 G. Ackroyd, P. Caine. *An investigation of the occurrence of propagating brush discharges from type b fibc with liners.*

O2-2 L. Fast, J. Paasi, J. Smallwood, I. Karlson. *Induction charging risk assessment: charged board alike discharges to metal and human body.*

O2-3 Z. Á. Tamus, I. Kiss, N. Szedenik, M. Keindl. *Effective method for measuring the energy of propagating brush discharges.*

O2-4 H. L. Walmsley. *Induced-charge errors in charge-transfer measurement.*

13h-15h: Lunch. *La Vella Restaurant.*

15h-16h30: Oral Session 3 “Standards & Measurements”.

Chairman: Jaako Paasi. Co-chairman: Anabel Soria

Invited Lecture: U. von Pidoll. *An overview of standards concerning unwanted electrostatic discharges.*

O3-1 M. Noras, A. Pandey, J. Kieres. *Verification of Non-Contacting Surface Electric Potential Measurement Model Using Contacting Electrostatic Voltmeter.*

O3-2 P. M. Ireland. *Contact charge accumulation and separation discharge.*

O3-3 P. Llovera, P. Molinié, A. Soria, A. Quijano. *Measurements of electrostatic potentials and electric fields in some industrial applications: Basic principles.*

16h30-18h30: Poster Sessions 1, 2 & 3 - Coffee

Poster Session 1 “Hazards & ESD”.

P1-1 A. Gajewski. *Multichannel measurement of ESD.*

P1-2 A. T Sobczyk, A. Jaworek, M. Sozanska. *Carbon fiber formation in electrical discharges in hydrocarbons.*

P1-3 A. Ohsawa. *Prevention criteria of electrostatic ignition by a charged cloud in grounded tanks.*

P1-4 Ch. R Buhler, C. I Calle, J. S Clements, S. Trigwell, M. L Ritz. *New Techniques to Evaluate the Incendivity of Insulators.*



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- P1-5 A. Krupa. *Laboratory investigations of back discharge in multipoint-plane geometry in flue gases.*
- P1-6 I. Kiss. *Increasing the Reliability of Risk Assessment for Systems Endangered by Electrostatic Discharges.*
- P1-7 V. March, M. Arrayás, J. L. Trueba, J. Montanyà, D. Romero, G. Solà, D. Aranguren. *Features of electrical discharges in air triggered by laser.*
- P1-8 Z. Yuanxiang, X. Xu, L. Bin, C. Jifeng, Y. Qingfu, L. Xidong, G. Zhicheng. *Shielding Failure Flashover Rate under Conditions of Complex Landscapes in Mountainous Areas.*
- P1-9 Z. Yuanxiang, H. Hanghai, X. Xu, C. Jifeng, Y. Yichao, L. Zhenyu, C. Yuan, Y. Deming, N. Qiong, L. Xidong. *High Risk Region of Bird Streamer Flashover in High Voltage Transmission Lines.*
- P1-10 A. Pey, M. Glor. *Incident Case Histories on Mobile Containers.*
- P1-11 Á. Veress, I. Berta. *Integration of the ATEX Directive into Everyday Processes in Different Industries (How to realize protection against explosion on all levels?).*

Poster Session 2 “Standards & Measurement”.

- P2-1 K. Dastoori, B. Makin, S. Bappoo. *The effectiveness of passive rfid tags in the presence of charged particles.*
- P2-2 H. Berndt. *Electrostatic discharge (esd) and the requirements on an esd control program (ecp) to 2020.*
- P2-3 H. Berndt. *Measurement methods for packaging material for electronic devices according to the standard IEC 61340-5-1 Ed. 1 (new) and the requirements from the standard ANSI/ESD S541-2003.*
- P2-4 D. A Grant, G. Hearn, W. Maggs, I. Gonzalez. *An electrostatic charge meter using a microcontroller offers advanced features and easier ATEX certification.*

Poster Session 3 “Lightning”.

- P3-1 J. C. Matthews, D. L. Henshaw. *Measurements of atmospheric potential gradient fluctuations caused by corona ions near high voltage power lines.*
- P3-2 F. M Vila, Florian A. Mandija. *The altitude profile of atmospheric ion concentration, and the determination of the recombination and attachment coefficients in the suburbs areas.*
- P3-3 D. Ruiz, C. Torraba, J. Puchades, I. Olivé, V. Pomar, S. Polo, P. Llovera, V. Fuster, F. Magraner. *Design, development and verification of a network for the measurement of lightning parameters in real installations.*
- P3-4 F. D’Alessandro. *New guidelines regarding the positioning of protective air terminations on structures using e-field modelling techniques.*
- P3-5 D. Aranguren, J. Montanya, G. Solà, D. Romero, V. March, H. Torres. *On the lightning hazard warning using electrostatic field: analysis of summer thunderstorms in Spain.*
- P3-6 J. Montanyà, S. Soula, M. Murphy, V. March, D. Aranguren, G. Sola, D. Romero. *Estimation of charge neutralized by negative cloud-to-ground flashes in Catalonia thunderstorms.*
- P3-7 A. Gulyás, N. Szedenik. *3D Simulation of the lightning path using a mixed physical probabilistic model - The Open Source Lightning Model.*
- P3-8 A. Gulyás, B. Németh, I. Kiss, I. Berta. *Planning preventive lightning protection using SCOUT.*

18h30-20h: Welcome wine.



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Thursday, 28th May 2009.

8h-8h30: Registration.

8h30-10h: Oral Session 4 “Applications & Industry”.

Chairman: Gérard Touchard. Co-chairman: Cristina García

Invited Lecture: A. Mizuno, S. Sato, H. Hayashi, K. Takashima.

Honeycomb discharge for diesel exhaust cleaning.

- O4-1 S. E. Law, K. Giles. *Electrostatic Abatement of Airborne Respirable Dust Emission From Mechanized Tree-Nut Harvesting: Theoretical Basis.*
- O4-2 C. I Calle, J. L McFall, C. R Buhler, S. J Snyder, E E Arens, A Chen, J. S Clements, C. R Fortier, S. Trigwell. *Particle Removal by Electrostatic and Dielectrophoretic Forces for Dust Control During Lunar Exploration Missions.*
- O4-3 J. Ch. Laurentie, J. Jolibois, E. Moreau. *Surface dielectric barrier discharge: effect of encapsulation of the grounded electrode on the electromechanical characteristics of the plasma actuator.*

10h-11h30: Poster Session 4 & 5 & Coffee.

Poster Session 4 “Fundamentals”.

- P4-1 C. Dragan, A. Samuila, S. Das, D. Iancu, M. Bilici, L. Dascalescu. *Factors that influence the tribocharging of insulating ducts in suction-type dilute-phase pneumatic transport systems.*
- P4-2 S. Das, A. Samuila, C. Dragan, L. Dascalescu. *Behaviour of charged insulating particles in contact with a rotating roll electrode.*
- P4-3 B. Tabti, L. Dascalescu, M. Plopeanu, A. Antoniu, R. Mekideche. *Factors that influence the corona charging of fibrous dielectric materials.*
- P4-4 L. Herous, M. Nemamcha, M. Remadnia, L. Dascalescu. *Factors that Influence the Surface Potential Decay on a Thin Film of Polyethylene Terephthalate (PET).*
- P4-5 M. Kühn, H. Kliem. *The method of local fields: a bridge between molecular modelling and dielectric theory.*
- P4-6 R. Cramariuc, L. Nisiparu, B. Cramariuc. *The Energetic Balance of the two different Electrostatic Processes: Electrostatic Liquid Spraying and Electrostatic Induction for Electrical Field Measuring.*
- P4-7 T. Shao, K. Long, Ch. Zhang, J. Wang, D. Zhang, P. Yan, S. Zhang. *Electrical Characterization of Dielectric Barrier Discharge Driven by Repetitive Nanosecond Pulses in Atmospheric Air.*
- P4-8 M. Havet, S. O. Ahmedou. *Effect of process parameters on the EHD airflow.*
- P4-9 L. P. Arevalo, V. Cooray, R. Montano. *Numerical simulation of long laboratory sparks generated by positive switching impulses.*

Poster Session 5 “Liquids”.

- P5-1 C. Louste, M. Daaboul, H. Romat. *A Study of Vortex Shedding Induced by Dielectric Barrier Injection.*
- P5-2 M. Eladawy, J. M. Cabaleiro, T. Paillat, O. Moreau, G. Touchard. *Experimental Determination of Space Charge Density Associated with Flow Electrification Phenomenon: Application to Power Transformers.*
- P5-3 M. Daaboul, C. Louste, H. Romat. *Transient Velocity Induced by Electric Injection in Blade-Plane Geometry.*
- P5-4 J. B Gajewski, K. Gatner. *Interpretation of the results of research on tribocharging in a rotating shaft-oil-lip seal system.*



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- P5-5 A. Ramos, P. García-Sánchez, A. Robles, M. J Freire. *Water flows induced by microwave electric fields in Microsystems.*
- P5-6 Y. Ren, H. Jiang, H. Yang, A. Ramos, P. García-Sánchez. *Electrical manipulation of electrolytes with conductivity gradients in Microsystems.*
- P5-7 A. T Pérez, M. Medrano, C. Soria. *Measurement of DC conductivity of suspensions in non aqueous media.*
- P5-8 R. Prakash, D. Chugh, Karan V.I.S. Kaler. *Recent Developments and Progress in Liquid Dielectrophoresis.*

11h30-13h: Oral Session 5 “Liquids”.

Chairman: Akira Mizuno. Co-chairman: Mayte Gil

Invited Lecture: G. Touchard, Th. Paillat. *Electrical charges and liquids motion.*

- O5-1 J-S. Chang, A. Berezin, H. Tsubone, K. Urashima, Y. Nam Chun. *Mechanism of Electrohydrodynamically induced flow in a wire-non-parallel plate electrode type gas pump.*
- O5-2 K. Sun, Q. Liu, X. Li. *The experimental test on Charge Density and Surface Potential in an Oil Tank during Filling Operation.*
- O5-3 J. Gajewski, M. J Głogowski. *Tribocharging in a rotating shaft-oil-lip seal system for different engine base oils, additive, and their blends.*

13h-15h: Lunch *La Vella Restaurant.*

15h-16h30: Oral Session 6 “Solid & Powders”.

Chairman: Philippe Molinié. Co-chairman: Gustavo Ortega

Invited Lecture: M. N. Horenstein. *Electrostatics and Nanoparticles: What's the Same, What's Different?*

- O6-1 B. F Nader, G.S. P. Castle, Kazimierz Adamiak. *Effect of Surface Conduction on the Dynamics of Induction Charging of Particles.*
- O6-2 V. Griseri, C. Perrin, C. Laurent. *Study of the charge build up and transport in electron beam irradiated dielectrics films.*
- O6-3 J. M. Valverde, M. J. Espin, M. A. S. Quintanilla, A. Castellanos. *Electrofluidized bed of silica nanoparticles.*

16h30-17h: Coffee

17h-18h30: Oral Session 7 “Lightning & History”.

Chairman: István Berta. Co-chairman: María Salazar

- O7-1 P. Molinié, S. Boudia. *Mastering picocoulombs in the 1890's: the Curies' quartz-electrometer instrumentation, and how it shaped early radioactivity history.*
- O7-2 J. Simon, P. Llovera. *Between Teaching and Research: Adolphe Ganot and the Definition of Electrostatics (1851-1914)*
- O7-3 G. M Berger, S. Ait Amar. *The noteworthy involvement of Jacques de Romas in the experiments on the electric nature of lightning.*
- O7-4 F. D'Alessandro. *Experimental study of the effect of wind on positive and negative corona from a sharp point in a thunderstorm.*
- O7-5 N. Balint, Kiss Istvan. *Application of fuzzy logic based expert system in preventive lightning protection.*

18h30: Closing Exhibition

20h: Bus departure from Polytechnic University to Gala dinner

20h30: Gala dinner at *La Ferradura Restaurant.*



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Friday, 29th May 2009.

8h-8h30: Registration.

8h30-10h: Oral Session 8 “*Fundamentals*”.

Chairman: Ulrich von Pidoll. Co-chairman: Marta Carsí.

Invited Lecture: R. Díaz-Calleja, María-Jesús Sanchis, Evaristo Riande. *Effect of an electric field on the deformation of incompressible rubbers: bifurcation phenomena.*

- O8-1 L. Dascalescu, S. Das, U. Kumar. *Numerical simulation of conductive particle behaviour at the surface of a plate electrode affected by a dc corona field.*
- O8-2 Z. Bei, T. B Jones, A. Tucker-Schwartz. *Forming concentric double-emulsion droplets using electric fields.*
- O8-3 K. M. Forward, B.S., Daniel J Lacks, R. Mohan Sankaran. *Methodology for Studying Particle-Particle Triboelectrification in Granular Materials.*

10h-11h30: Poster Sessions 5, 6 & 7 - Coffee

Poster Session 6 “*Solids & Powders*”.

- P6-1 K. Ikezaki, Y. Murata. *Electret properties of ethylene-propylene random copolymer.*
- P6-2 L. Cui, M. Song, Y. Kong, L. Chen, D. Wang, Y. Xiao, J. Jiang. *The comparative studies of charge storage stabilities among three PP/porous PTFE/PP electret.*
- P6-3 Z. Yuanxiang, W. Yunshan, L. Guangfan, L. Yingyan, L. Bo, L. Peng, C. Huanchao. *Space Charge Phenomena in Oil-paper Insulation Materials under High Voltage Direct Current.*
- P6-4 Z. Yuanxiang, C. Haihang, W. Jianyi, N. Qiong, S. Qinghua, W. Yunshan. *The influence of pre-stressing on breakdown characteristics in liquid silicone rubber.*
- P6-5 Z. Yuanxiang, Q. Sun, N. Wang, Y. Wang. *Pre-stressing effect on dc breakdown in low density polyethylene.*
- P6-6 A. Petre, C.-D. Pham, L. Berquez, D. Marty-Dessus. *Three-dimensional space charge cartographies by FLIMM in electron irradiated polymers.*
- P6-7 Anatol Jaworek, A. Krupa, M. Lackowski, A. T Sobczyk, T. Czech, S. Ramakrishna, S. Sundarajan, D. Pliszka. *Nanocomposite fabric formation by electrospinning and electrospraying technology.*
- P6-8 M. Takeuchi, M. R. Islame. *Adhesion Forces of Charged Toner Particles.*
- P6-9 M. Carsí, R. Díaz Calleja, M.J. Sanchis, J. Guzmán, E. Riande, *Broadband Dielectric Spectroscopy of Poly(2-ethoxyethyl methacrylate) Membranes.*
- P6-10 P. Ortiz-Serna, R. Díaz-Calleja, M.J. Sanchis, G. Floudas, E. Riande, A. Martins, L. Visconte, R. Nunes. *Dielectric spectroscopy of the dynamics in natural rubber-cellulose ii nanocomposites.*

Poster Session 7 “*Applications & Industry*”.

- P7-1 D. Boni, Z. Noureddine, M. Eric, G. Touchard. *Electrostatic precipitation in wire-to-cylinder configuration. Effect of the high-voltage power supply waveform.*
- P7-2 A. Niewulis, J. Podliński, J. Mizeraczyk. *Flow and Particle Collection Efficiency of a Spike-Plate Type.*
- P7-3 A. Niewulis, J. Podliński, J. Mizeraczyk. *Electrohydrodynamic flow patterns in a narrow electrostatic precipitator with longitudinal or transverse wire electrode.*
- P7-4 N. Benard, J. Jolibois, E. Moreau. *Lift and drag performances of an axisymmetric airfoil controlled by plasma actuator.*



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- P7-5 N. Balcon, N. Benard, Y. Lagmich, J.-P. Boeuf, G. Touchard, E. Moreau. *Positive and negative sawtooth signals applied to a dbd plasma actuator - influence on the electric wind.*
- P7-6 T. Iváncsy, I. Kiss, I. Berta. *Improved model for the analysis of back corona in pulse energised electrostatic precipitators.*
- P7-7 Z. Á. Tamus. *Complex diagnostics of insulating materials in industrial electrostatics.*
- P7-8 M. Jedrusik, A. Swierczok. *The influence of fly ash physical & chemical properties on electrostatic precipitation process.*
- P7-9 P. Atten. *On a disintegration process of fine particles in electrostatic precipitators due to Coulomb repulsion.*
- P7-10 B. Alonso-Fariñas, B. Navarrete, V. J. Cortés. *PLASMACOL-NOVARE project. Pollutant emission reduction in great combustion plants by means of non-thermal plasma application in hybrid collectors.*
- P7-11 M. Salazar, E. Chacón, P. Llovera, A. Soria. *Low cost medium voltage impulse generator for educational applications.*

11h30-13h: Oral Session 9 “Applications & Industry”.

Chairman: Graham Ackroyd. Co-chairman: Tomás Yebra.

- O9-1 A. Bologa, H.-R. Paur, H. Seifert, Th. Wäscher, K. Woletz. *Novel wet electrostatic precipitator for collection of fine aerosol.*
- O9-2 A. Th. Haaland, K. Parker, F. Vik. *Enhanced Fine Particle Collection by the Application of SMPS Energization.*
- O9-3 E. dela Cruz, J.-S. Chang, A. A Berezin, D. Ewing, J. S Cotton, M. Bardeleben. *Electrical effect of soot depositions in a co-axial wire pipe flow.*
- O9-4 J. García-García, E. Miranda, C. S. Martínez-Cisneros, J. Alonso, L. Viladoms, P. de Mariscal. *Method for improving the perforation of paper webs using focalized electrostatic discharges.*

13h-13h30: Closing Ceremony

13h30-15h30: Closing Lunch. *Special Catering.*



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SCHEDULE

	Workshop	Conference			Visit
	Tuesday, 26 May	Wednesday, 27 May	Thursday, 28 May	Friday, 29 May	Saturday, 30 May
8h	Registration & Exhibition registration (Workshop room)	Registration (Nexus building)	Registration (Nexus building)	Registration (Nexus building)	GUIDED VISIT
9h		Opening Ceremony	Oral O-4 Applications & Industry	Oral O-8 Fundamentals	
10h	Basics of Electrostatics	Oral O-1 Hazards & ESD	Poster P-4 Fundamentals Poster P-5 Liquids	P- 6 Solids & Powders P-7 Applications & Industry	
11h	Coffee	Coffee (close to exhibition)	Coffee	Coffee	
12h	Explosion & Hazards	Oral O-2 Hazards & ESD	Oral O-5 Liquids	Oral O-9 Applications & Industry	
13h	Lunch <i>In-situ Catering</i>	Lunch <i>La Vella Restaurant</i>	Lunch <i>La Vella Restaurant</i>	Closing Ceremony	
14h	ESD			Lunch <i>In-situ Catering</i>	
15h	Coffee	Oral O-3 Standards & Measurements	Oral O-6 Solids & Powders		
16h	Electrostatics & Fireworks industry	Poster & Coffee P-1 Hazards & ESD P-2 Standards & Measurement P-3 Lightning	Coffee		
17h	Incidents at Gasoline Stations		Oral O-7 Lightning & History		
18h	Registration (Workshop room)	Welcome wine	Closing Exhibition Conference dinner 20h30		







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EXHIBITION AND SPONSORSHIP

An exhibition of electrostatics equipment, services and materials used for static electricity and ESD control will be hosted during the workshop and first and second day of the conference. The exhibition hall will be a closed area at the ground floor of 6G building. This space, next to the conference room, will be adapted for the exhibition: installation of boxes, tables, chairs and electric power connexions.

Exhibitors:

	<p>Trek, Inc. Trek's vision is to be recognized worldwide as the premier resource for innovative electrostatic measurement and high-voltage solutions. Its reputation for Product Leadership and Engineering Excellence is achieved through the on-going development of its knowledge base and proactive approach toward market and technology research.</p>
	<p>Electrostatica.net is a company specialized in static electricity, focused on the research of visible solutions to invisible problems raised by this phenomenon in different sectors such as Chemicals, Pharmaceuticals, Textile, Plastics, Printing, Automobile, Electronics, Building, etc. It also develops applications in this area through training services, consultancy, laboratory and the supply of proposed solutions.</p>
	<p>APLICACIONES TECNOLOGICAS, S.A. It develops its activity within the environment protection area. This company researches, develops, produces and markets high technology equipment for solving specific problems of specialized fields where its professional team experience are proved to be decisive. The fields they develop are: protection technologies against lightning, radiological protection and medical physics and environment protection technologies.</p>
	<p>CST, Computer Simulation Technology. CST is a company which offers a wide range of software products to address simulation challenges in the core markets microwaves & RF, EDA & electronics, EMC/EMI, charged particle dynamics, and statics & low frequency.</p>



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PRACTICAL INFORMATION

Venue

The conference will be held at the Polytechnical University of Valencia. The conference room and the exhibition room are located in the ground floor of the Nexus Building (building 6G) and the workshop will be held at the 6C building (ground floor). See University Map for location and access at page 16.

The Polytechnical University of Valencia (UPV) is located near the sea and close to the Malvarrossa beach and the Valencia's port.

Registration

Tuesday 26th, registration desk will be located next to the workshop room, building 6C. Wednesday 27th, Thursday 28th and Friday 29th, registration desk will be located in front of the lecture hall, building 6G (see figure page 16). Registration will be available from Tuesday 26th at 8h to Friday 29th at 9h.

Instruction for authors

Authors presenting at oral sessions are asked to upload their presentations in the computer of the lecture hall at least 15 min before the session. They can also upload their presentation at any moment before their session by asking to the local organizing staff or send it previously by e-mail to the address electrostatics@ite.es.

Authors presenting posters are asked to bring their posters at least 15 min before their session. Posters can be installed after the previous session but authors should contact the organization to find their poster panel. Posters have to be removed just after each session. Poster panels will also be removed after each session.

Documentation

In the conference bag, you will find the following documents: conference proceedings published at the special issue of the Journal of Electrostatics (JoE), a University map, a city map of Valencia, a subway map of the town centre, some information about Valencia city, two tickets for Wednesday and Thursday lunches and a travel card with 10 one-way trips for bus and underground within Valencia.

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How to get to the conference?

There are different ways to get to the conference, as shown below.



Venue from Hotels

- a) From Hotel Beatriz Rey D. Jaime & Holiday Inn
 By bus:
 1. Take bus nº 18 at bus stop Eduard Boscà - Balears (calle Eduardo Boscà), 275 m from hotel.
 2. Step down the bus after 7 bus stops in Ramon Llull - Albalat dels Tarongers (Av. de los Naranjos / Av. Tarongers).
 3. Walk 300 m to Av. de los Naranjos (Av. Tarongers).

- b) From Hotel Husa Llar
 By underground:
 1. Take line nº 3 at the metro stop *Colon* (100 m from hotel), direction *Rafelbunyal/Palmaret*.
 2. Change to tramway line nº 4 (direction *Dr. Lluch*) or nº 6 (direction *Dr. Lluch/Serreria*) at stop *Benimaclet*.
 3. Step down the tramway at the stop *Tarongers*.
 By bus:
 1. Take bus nº 71 or nº 9 at the bus stop *Pintor Sorolla - A. Magnànim* (calle Pintor Sorolla), 300 m from hotel.
 2. Step down the bus after 11 stops in *Ramon Llull - Campus Tarongers* (bus 71) or in *Ramon Llull - Albalat dels Tarongers* (bus 9).
 3. Walk 300 m from bus stop to Av. Los Naranjos.

- c) From Hotel Renasa:
 The best way to go to Polytechnical University from this hotel is walking (10 min).



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d) From Colegio Mayor Galileo Galilei.

It is located inside the University Campus (200 m from the Conference site).

Lunches and coffees

On Tuesday 26th, lunch and coffees will be served at building 6C floor plant, in front of the workshop room.

The first day of the conference, Wednesday 27th, there will be a welcome wine after the first poster sessions (P1, P2 & P3), which will take place between 6C and 6G buildings.

On Wednesday 27th and Thursday 28th, lunch is organized at “La Vella” Restaurant (building 1B). You have to give at the restaurant the corresponding ticket you will find in the documentation. There will be a guided walk to the restaurant and indications along the University campus (see university map page 16).

Friday 29th, a special catering will be served for lunch at the ground floor of building 6G.

Coffees will be proposed every day at the conference locations.

Conference rooms

The lecture hall and exhibition room will be located at the ground floor the 6C Building (Nexus building)

Internet Connection

During the registration, each attendant will be given a “temporary access ticket” for Internet Connection. This ticket will let the user free access to the *Universidad Politécnica de Valencia* network during the days of the conference. This service is offered only to the indicated user and for the use explained in the moment of receiving this document, according to the UPV regulations (for more details, you can read the web page <http://www.upv.es/doc/normativa>).

The owner of the document will be the only and direct responsible person of the use of this service, and he must take special care of his personal access password.

You can change your password at <https://www.upv.es/ccTemp>.

To use the wireless network of the *Universidad Politécnica de Valencia*, the user will have to connect its laptop to the **UPVNET** network (with coverage throughout the whole campus) and follow the instructions at <http://wifi.upv.es>

If attendants already have a user account belonging to any organization member of the Eduroam initiative, they may use it to connect to the network through the eduroam ssid.

To solve any doubts or make any suggestion, contact the *UPVNET* Help Desk service (96 387 77 50) or the Eduroam Help Desk service (902 87 61 65).



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Poster Print Service

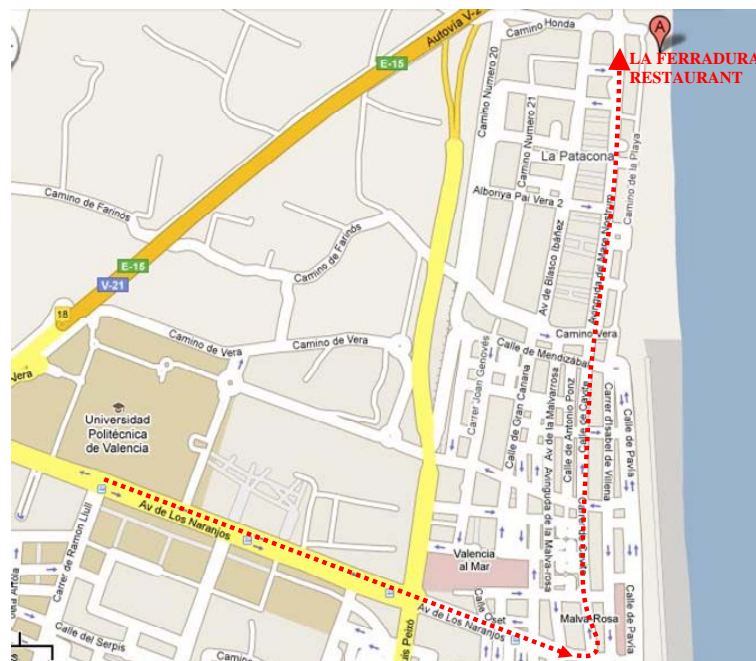
There is a low cost poster print service available for authors in case of any incident with posters (see map below page 16).

Gala dinner

The conference gala dinner will be Thursday 28th, at 20h30 at “La Ferradura” Restaurant, next to the sea.

There will be 3 buses which will pick up people at these hotels at 20h: Hotel Husa Llar, Hotel Holyday Inn, Hotel Beatriz Rey D. Jaime, Hotel Renasa and Colegio Mayor Galileo Galilei. If you are registered in other hotels, we recommend you to be at 20h at Colegio Mayor Galileo Galilei and join the bus leaving from this location.

You can also go directly by your own means to the restaurant at the following address: Restaurante “La Ferradura”, C/ Playa Patacona , Alboraya (Valencia) – Phone Number: +34 963 716 484



Gala dinner restaurant location

Guided visit to Valencia and social programme

On Saturday 30th, there will be a guided tour to Valencia. Schedule and meeting point will be confirmed by the organizing committee.

There is no parallel social programme for accompanying persons. We suggest to contact the Technical Secretariat Ultramar Express (Help Desk) for tourist information.



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Polytechnical University of Valencia Map and conference locations

