FLTPD XI
24-28 May 2015
Porquerolles island, France
We would like to thank the sponsors for their generous support.
The 11th Frontiers in Low Temperature Plasma Diagnostics is organised by

The PIIM laboratory (Aix-Marseille University and the CNRS)

International scientific committee:

• Nader Sadeghi, Grenoble (F) - chair
• Georgio Dilecce, Bari (I)
• Uwe Czarnetzki, Bochum (D)
• Richard Engeln, Eindhoven (NL)
• Nick Braithwaite, Milton Keynes (UK)
• Frantisek Krcma, Brno (CZ)

Local organising committee:

• Gilles Cartry, AMU-CNRS – chair
• Lénaïc Couëdel, CNRS-AMU- co-chair
• Alexandre Escarguel, AMU-CNRS
• Kostiantyn Achkasov, CEA Cadarache-AMU
• Xin Yang, AMU-CNRS
• Pierre David, AMU-CNRS
• Nathalie Bonifay, AMU-CNRS
• Marie-Pierre Carvin, AMU-CNRS
• Régis Khamchanh, AMU-CNRS
PROGRAM

Presentations

The time slots for the invited lectures are 45 minutes long, 35 minutes for the talk and 10 minutes for questions. Topical lectures should be planned with 20 minutes for the talk and 5 minutes for questions. Please allow time for discussion.

Poster sessions

The poster sessions are planned after the dinner on Monday and Tuesday. Please make sure that your poster is put on the board well before the beginning of the poster session. Please use the board with the corresponding number to hang your poster. During the poster sessions drinks will be available.

Industrial exhibition

The following exhibitors will be present:
• Sairem http://www.sairem.com
• Solayl http://www.solayl.com/
Lunch breaks and the discussion time on Monday and Tuesday are ideal moments to visit the exhibition booths.

The excursion

The excursion is planned for Wednesday May 27th right after lunch. In the early afternoon, different options are proposed:
• A guided tour of the village and the surroundings (two groups).
• A kayak excursion (one group, number of participants).
In the late afternoon, a wine testing is organised in a local winery (Domaine Perzinsky). Two time slots, ~40 people each are proposed:
• 17:00-18:00
• 18:00-19:00
We kindly request you to register for the desired activities on arrival.

Conference dinner

The conference dinner will be held on Wednesday after the excursion in the conference centre. A prize will be awarded for the best student presentation during the dinner.
## List of invited speakers

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<th>Speaker</th>
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<td>Mitsutoshi ARAMAKI</td>
<td>Nihon University, Japan</td>
<td>Multi-dimensional Doppler Spectroscopy using an Optical Vortex Laser</td>
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<td>Peter BRUGGEMAN</td>
<td>University of Minnesota, USA</td>
<td>Diagnostics of nanosecond atmospheric pressure and liquid plasmas</td>
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<td>Alessandro DE GIACOMO</td>
<td>University of Bari Aldo Moro, Italy</td>
<td>Plasma processes and emission spectra in laser induced plasma</td>
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<td>Fabrice DOVEIL</td>
<td>CNRS, AMU, France</td>
<td>Lamb shift and electric field measurement in plasmas</td>
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<td>Alan HOWLING</td>
<td>EPFL, Switzerland</td>
<td>RF antennas as plasma monitors</td>
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<td>Joe KHACHAN</td>
<td>The University of Sydney, Australia</td>
<td>Diagnostics on Inertial Electrostatic Confinement Discharges</td>
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<td>Vincent PUECH</td>
<td>CNRS, Université Paris-Sud, France</td>
<td>Dynamics of electrons and excited states in microplasma jets</td>
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<tr>
<td>Stephan REUER</td>
<td>INP Greifswald, Germany</td>
<td>Diagnostics of atmospheric and liquid plasmas</td>
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<td>Antoine ROUSSEAU</td>
<td>CNRS, École polytechnique, France</td>
<td>Imaging, shadowgraphy and emission of plasmas in liquids</td>
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<td>Volker SCHULZ-VON DER GATHEN</td>
<td>Ruhr-Universität Bochum, Germany</td>
<td>Investigating the dynamics of a self-pulsing microscaled atmospheric pressure plasma jet</td>
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## List of topical lectures

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<td>Eindhoven University of Technology, The Netherlands</td>
<td>Cold atmospheric pressure plasma jets charge carried by plasma bullets</td>
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<td>Abdullah SARANI</td>
<td>INP Greifswald, Germany</td>
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<td>Uwe CZARNETZKI</td>
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<td>Time resolved evolution of the EEDF in a ns-pulsed atmospheric pressure plasma jet in Helium</td>
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<td>Arthur SALMON</td>
<td>Ecole Centrale Paris, France</td>
<td>Spatial characterization of N(4S) and N(2P) in the afterglow of a pulsed nitrogen discharge at atmospheric pressure using optical emission spectroscopy</td>
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<td>Comenius University Bratislava, Slovakia</td>
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<td>Augusto STANCAMPIANO</td>
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<td>Milan TICHY</td>
<td>Charles University in Prague, Czech Republic</td>
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<td>Electron density measurements in highly electronegative magnetized plasma using RF diagnostics</td>
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<td>Emile CARBONE</td>
<td>Ruhr-Universität Bochum, Germany</td>
<td>Spatio-temporal dynamics of excited species and electrons in a pulsed argon microwave discharge</td>
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Poster Session 1:
List of Posters

1. **Atomic surface loss coefficients studied by a pulsed induced fluorescence technique**
   Xin YANG, UMR7345 - Physique des Interactions Ioniques et Moléculaires

2. **Ball-pen probe diagnostics of a weakly magnetized discharge plasma column**
   Jernej Kovacic, Jozef Stefan Institute

3. **Characterization of the E-H transition of an inductively coupled radio frequency oxygen plasma**
   Thomas Wegner, University of Greifswald

4. **Comparison between boron atoms density measured by OES, LIF and resonance absorption techniques in a H2/CH4/B2H6 micro-wave plasma**
   Xavier Aubert, Laboratoire des Sciences des Procédés et des Matériaux

5. **Determination of absolute atomic hydrogen densities and gas temperature by TALIF in a H2/CH4 microwave plasma at high pressure and high power**
   Corinne Duluard, Laboratoire des Sciences des Procédés et des Matériaux

6. **Controlling the Electron Density with the Multipole Resonance Probe During a Sputter Process**
   Moritz Oberberg, Institute for Electrical Engineering and Plasma Technology, Ruhr-University Bochum

7. **Comparison between measurements from emissive probe, Langmuir probe and LIF spectroscopy in the discharge of Hall thrusters**
   Aude Petin, Institut de Combustion Aérothermique Réactivité et Environnement.

8. **Determination of the angular distribution function of the negative ions produced on the HOPG surface in H2/D2 plasmas using mass spectrometry**
   Kostiantyn Achkasov, CEA Cadarache, Physique des interactions ioniques et moléculaires

9. **Discovery of anode-directed recombination emission wave in coplanar dielectric barrier discharge**
   Jan Cech, Masaryk University, R&D Center for Low-Cost Plasma and Nanotechnology Surface Modification

10. **Dynamics of a growing dust particle cloud in a direct-current argon sputtering glow discharge**
    Lenaïc Couedel, CNRS, AMU, UMR 7345

11. **Electron impact transfer rates between metastable and resonance states of argon investigated by laser pump-probe technique**
    Emile Carbone, Laboratoire des technologies de la microélectronique, Ruhr-Universität Bochum

12. **Influence of H2 number density on recombination of H3+ ions with electrons**
    Abel Kálosi, Department of Surface and Plasma Science, Faculty of Mathematics and Physics, Charles University in Prague

13. **Infrared gas phase studies on plasma-polymer interaction in high-current dielectric barrier discharges**
    Yaoge Liu, FUJIFILM Manufacturing Europe B.V, Dutch Institute for Fundamental Energy Research

14. **Laser Induced Fluorescence in an atmospheric pressure RF plasma jet**
    Giorgio Dilecce, Istituto di Metodologie Inorganiche e dei Plasmi-CNR
15. Light emission from diffuse coplanar barrier discharge in neon induced by charge relaxation
   Zdenek Navratil, Department of Physical Electronics, Masaryk University

16. Manipulation of helium barrier discharges by laser surface interaction
   Sebastian Nemschokmichal, Institute of Physics, University of Greifswald

17. Measurement of Metastable Helium Density in Radio Frequency Dielectric Barrier Discharge in Helium at Atmospheric Pressure
   Jean-Sébastien Boisvert, Université de Montréal, Laboratoire Procédés, Matériaux et Energie Solaire

18. Optical and probe diagnostics of a 2.45 GHz ECR coaxial plasma source
   Juslan LO, Equipe de Recherche Diagnostic des Plasmas Hors Equilibre - Louis Latrasse, SAIREM

19. Recombination of ortho and para H3+ ions with electrons at low temperatures using flowing afterglow technique
   Petr Dohnal, Department of Surface and Plasma Science, Faculty of Mathematics and Physics, Charles University in Prague

20. Simulating an Ion Energy Analyzer using Particle-in-Cell technique
    Jernej Kovacic, Jozef Stefan Institute

21. Spectroscopic investigation of carbon and tungsten dust in magnetized and non-magnetized hydrogen plasma
    Karim Ouaras, LSMP

22. Temporal evolution of plasma density in a pulsed 2-frequency (2/13.56MHz) 2-antenna inductively coupled plasma discharge
    Nishant Sirse, Dublin City University

23. The Research of well-known Explosive RDX by Thermal Decomposition Technique by the means of Ion Mobility and Mass spectrometry
    Zuzana Lichvanova, Comenius University in Bratislava

24. The temperature of electrons of complex plasma in the mixture of He/Ar in radio frequency discharge
    Yerbolat Ussenov, IETP, al-Farabi Kazakh National University

25. Time development of electric field in gamma-mode RF APGD in helium
    Zdenek Navratil, Department of Physical Electronics, Masaryk University

26. Visible spectrum tomography of rotating coherent modes in a linear magnetized plasma
    Pierre David, Physique des interactions ioniques et moléculaires
Poster Session 2:  
List of posters

COST TD1208

1. Advanced investigation of the interaction between a plasma jet and a liquid surface: influence of atmosphere and substrate composition  
   Emanuele Simoncelli, Università di Bologna

2. Controlled droplet transport through an atmospheric pressure plasma 
   Paul Maguire, University of Ulster

3. Effect of electrical discharge on laser produced nanoparticles in liquid 
   Y. Erdogan, BEAM R&D Optics & Laser Technologies Ltd., Turkey

4. Formation of reactive species in water falling film DBD 
   Vesna Kovačević, University of Belgrade

5. Measurement of electric field development in He plasma jet 
   Goran Sretenovic, University of Belgrade

6. Non-thermal plasma diagnostic using optical emission spectroscopy 
   Eugen Hntuci, "Gheorghe Asachi" Technical University of Iasi

7. Optical emission spectroscopy of surface dielectric barrier discharge generated by liquid electrodes in different gases 
   Antonin Brablec, Masaryk University

8. Spectroscopic diagnostics of underwater plasma jet based on pin-hole configuration 
   Bratislav Obradović, University of Belgrade

9. Spectroscopy study of a barrier single micro-discharge with thin water layer as second electrode. 
   Anton Nikiforov, Department of Applied Physics, Ghent University

10. Underwater plasma jet based on the pin-hole configuration 
    Frantisek Krcma, Brno University of Technology, Faculty of Chemistry

Non- COST

11. A novel approach for low pressure wire anode glow discharge 
    Ignacio Gabriel Vicente Gabás, Fraunhofer Institute for Organic Electronics, Electron Beam and Plasma Technology FEP

12. A pulsed DC bias technique to study the negative-ion production on insulating surfaces in hydrogen plasmas 
    Dmitry Kogut, Physique des interactions ioniques et moléculaires

13. Absorption spectroscopy in RF plasmas at atmospheric pressure: argon resonance and metastable densities. 
    Anton Nikiforov, Department of Applied Physics, Ghent University

14. Accuracy Analysis of a Thrust Vector Ion Beam Scanner comprised of Retarding Potential Analyser 
    Ralf Heidemann, Thales Deutschland GmbH Business Unit Electron Devices
15. Characterization of hybrid gas-liquid Dielectric Barrier Discharge plasma reactors for water treatment
   Gabriele Neretti, Faculty of Engineering

16. Depth Analyses of Multilayer Thin Films Using Laser-Induced Breakdown Spectroscopy
   M Irfan, Electro Optic System Engineering. Kocaeli University.

17. Diagnostics in pulsed Hydrogen Plasmas
   Jérôme Dubois, Laboratoire des technologies de la microélectronique

18. $E\times B$ probe measurements in strongly electronegative plasmas
    Denis Renaud

19. In-situ and real-time monitoring of atmospheric pollutant oxidation on a catalytic surface under plasma exposure
    Zixian Jia, LPP, Ecole Polytechnique, UPMC, CNRS, Université Paris-Sud 11

20. Measurement of CO densities by IR absorption spectroscopy in a CO2/O2 and CO2/N2 dielectric barrier discharge
    Claire Douat, Eindhoven University of Technology, P.O. Box 513, 5600 MB Eindhoven, The Netherlands

    A. Ayilaran, The Open University, Walton Hall, Milton Keynes, MK7 6AA.

22. On the ion energy distribution functions at unbiased walls
    Tsanko Tsankov, Ruhr-University Bochum, Faculty for Physics and Astronomy, Institute for Plasma and Atomic Physics

23. Optical emission spectroscopy in a VHF-CCP: Influence of a polymeric discharge chamber
    Marcel Fiebrandt

24. Particle pairs as diagnostic tool in complex plasmas
    Vladimir Nosenko, German Aerospace Center

25. Spectroscopic studies of MW plasma containing HMDSO, O2 and N2
    Andy Nave, INP Greifswald
Sunday, 24th May 2015

16:00 – 19:30  Registration
18:00 – 19:30  Welcome party
19:30 - 21:30  Diner
Monday, 25th May 2015

08:45 - 09:00  Opening ceremony

09:00 - 09:45  Invited lecture
Investigating the dynamics of a self-pulsing microscaled atmospheric pressure plasma jet
Volker Schulz-von der Gathen, Institute for Experimental Physics II, Ruhr-Universität Bochum

09:45 - 10:30  Invited lecture
Dynamics of electrons and excited species in helium microplasma jets
Vincent Puech, Laboratoire de Physique des Gaz et des Plasmas, CNRS - Université Paris-Sud 11

10:30 - 11:20  Coffee break

11:20 - 11:45  Topical lecture
Cold atmospheric pressure plasma jets - charge carried by plasma bullets
Ana Sobota, Eindhoven University of Technology.

11:45 - 12:10  Topical lecture
Investigation of discharge development in an atmospheric pressure single dielectric barrier discharge in N2/CO2 mixture by Cross-correlation spectroscopy
Abdollah Sarani, Leibniz-Institute for Plasma Science and Technology, Greifswald.

12:10 - 12:35  Topical lecture
Measurement of molecular argon ion density in an atmospheric pressure transient spark discharge by observation of ion acoustic waves
Torsten Gerling, Leibniz Institute for Plasma Science and Technology, Greifswald.

12:45 - 13:45  Lunch

13:45 - 16:45  Informal discussions

16:45 - 17:10  Coffee break

17:10 – 17:20  SAIREM presentation

17:20 - 18:05  Invited lecture
Plasma processes and emission spectra in laser induced plasma
Alessandro De Giacomo, University of Bari.

18:05 - 18:30  Topical lecture
Time resolved evolution of the EEDF in a ns-pulsed atmospheric pressure plasma jet in Helium
Uwe Czarnetzki, Ruhr-University Bochum, Institute for Plasma and Atomic Physics.

18:30 - 18:55  Topical lecture
Spatial characterization of N(4S) and N(2P) in the afterglow of a pulsed nitrogen discharge at atmospheric pressure using optical emission spectroscopy

19:30 - 20:30  Diner

20:30 - 22:30  Poster Session 1
Tuesday, 26th May 2015 (COST TD1208 Workshop)

09:00 - 09:45 Invited lecture (COST TD1208)
Diagnostics of atmospheric plasmas and plasmas on liquid
Stephan Reuter, INP Greifswald.

09:45 - 10:30 Invited lecture (COST TD1208)
Diagnostics of nanosecond atmospheric pressure and liquid plasmas
Peter Bruggeman, University of Minnesota.

10:30 - 11:20 Coffee break

11:20 - 12:05 Invited lecture (COST TD1208)
Imaging, shadowgraphy and emission of plasma in liquids
Antoine Rousseau, Laboratoire de Physique des Plasmas, Ecole Polytechnique, UPMC, CNRS, Université Paris-Sud 11.

12:05 - 12:30 Topical lecture (COST TD1208)
Imaging of self-pulsing nanosecond transient spark discharge
Mario Janda, Department of Environmental Physics, Faculty of Mathematics, Physics and Informatics, Comenius University Bratislava.

12:45 - 13:45 Lunch

13:45 - 16:45 Informal discussion

16:45 - 17:10 Coffee Break

17:10 - 17:35 Topical lecture
Measurement of the radial density profile of Ar metastables by self-absorption method with an optical probe
Xi-Ming Zhu, Institute for Plasma and Atomic Physics, Ruhr University Bochum.

17:35- 18:00 Topical lecture
Mid-infrared laser absorption spectroscopy for the detection of transient species in plasmas
Jean-Pierre van Helden, Leibniz Institute for Plasma Science & Technology, Greifswald.

18:00 - 18:25 Topical lecture (COST TD1208)
Advanced investigation into the interaction between a plasma jet and a liquid surface: influence of electrical and fluid dynamic parameters
Augusto Stancampiano, Università di Bologna.

18:25 - 18:50 Topical lecture
Laser-photodetachment of negative ions in He/O2 barrier discharges
Sebastian Nemschokmichal, Institute of Physics, University of Greifswald.

18:50 - 19:15 Topical lecture
Measurements of plasma potential in low-temperature magnetized plasma - comparison between Langmuir and ball-pen probe
Milan Tichy, Charles University in Prague, Faculty of Mathematics and Physics.

19:30 - 20:30 Dinner

20:30 - 22:30 Poster Session 2 (COST TD1208)
Wednesday, 27th May 2015

09:00 - 09:45  Invited lecture
Diagnostics on Inertial Electrostatic Confinement Discharges
Joe Khachan, School of Physics, The University of Sydney

09:45 - 10:30  Invited lecture
Lamb shift and electric field measurement in plasmas
Fabrice Doveil, Physique des interactions ioniques et moléculaires, CNRS, Aix-Marseille-Université.

10:30 - 11:20  Coffee break

11:20 - 11:45  Topical lecture
Time-resolved quantum cascade laser diagnostics of pulsed plasmas with strong vibrational excitation.
Daniil Marinov, Laboratoire de Physique des Plasmas, Ecole Polytechnique, UPMC, CNRS, Université Paris-Sud 11.

11:45 - 12:10  Topical lecture
Measuring IVDF through high-aspect holes in pulsed ICP plasmas
Gilles Cunje, Laboratoire des Technologies de la Microélectronique, CEA, CNRS, Université Grenoble Alpes.

12:10 - 12:35  Topical lecture
Ultra broad-band high sensitivity absorption spectroscopy of inductively-coupled plasmas in Cl2/O2 mixtures
Jean-Paul Booth, Laboratoire de Physique des Plasmas, Ecole Polytechnique, UPMC, CNRS, Université Paris-Sud 11.

12:45 - 13:45  Lunch

13:45 - 19:30  Excursion

19:30 - late  Conference diner followed by dancing
Thursday, 28th May 2015

08:30 - 09:15    Invited lecture
RF antennas as plasma monitors

09:15 - 10:00    Invited lecture
Multi-dimensional Doppler Spectroscopy Using an Optical Vortex Laser
Mitsutoshi Aramaki, College of Industrial Technology, Nihon University, Chiba, Japan.

10:00 - 10:30    Coffee break

10:30 - 10:55    Topical lecture
Electron density measurements in highly electronegative magnetized plasma using RF diagnostics
Dmytro Rafalskyi, Laboratoire de Physique des Plasmas, Ecole Polytechnique, UPMC, CNRS, Université Paris-Sud 11.

10:55 - 11:20    Topical lecture
Spatio-temporal dynamics of excited species and electrons in a pulsed argon microwave discharge
Emile Carbone, Laboratoire des technologies de la microélectronique, Université Grenoble Alpes and Ruhr-Universität Bochum.

11:20 - 11:30    Closure

11:30 - 12:00    Picnic basket distribution

12:30    Boat departure from Porquerolles harbour
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<td>9h</td>
<td>9h: V S Gathen (Chair G Cartry)</td>
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<td>9h15: M Aramaki (Chair N Braithwaite)</td>
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<td>9h45: V Puech (Chair G Cartry)</td>
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<td>9h45: F Doveil (Chair U Czarnetzki)</td>
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<td>10h30: D Rafalskyi</td>
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<td>12h</td>
<td>11h20: A Sobota</td>
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<td>11h45: A Sarani</td>
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<td>12h10: T Gerling (Chair N Sadeghi)</td>
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<td>16h-19h30: Registration</td>
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<td>18h30: A Salmon (Chair G Dilecce)</td>
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</table>