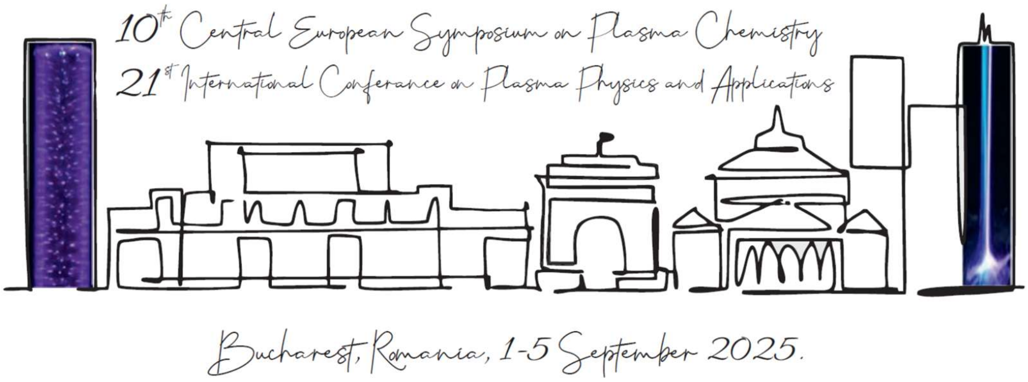

10th Central-European Symposium on Plasma Chemistry

Final Announcement and Programme

1 – 5 September 2025
Novotel City Centre Hotel, Bucharest, Romania

21st International Conference on Plasma Physics and Application

Organizers

National Institute for Laser, Plasma and Radiation Physics	Association Laser, Plasma, Radiation – Science and Technology	Alexandru Ioan Cuza University of Iasi

10th Central European Symposium on Plasma Chemistry

Co-chairs

Monica Magureanu	National Institute for Laser, Plasma and Radiation Physics, Romania
Bogdana Mitu	National Institute for Laser, Plasma and Radiation Physics, Romania
Ionut Topala	Alexandru Ioan Cuza University of Iasi, Romania

International Scientific Committee

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Gheorghe Dinescu	National Institute for Laser, Plasma and Radiation Physics, Romania
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Milorad Kuraica	University of Belgrade, Serbia
Kinga Kutasi	HUN-REN Wigner Research Centre for Physics, Budapest, Hungary
Ester Marotta	University of Padova, Italy
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Tiberiu Minea	University Paris-Saclay, Orsay, France
Jerzy Mizeraczyk	Gdynia Maritim University, Poland
Ricardo Molina	Institute for Advanced Chemistry of Catalonia, Barcelona, Spain
Miran Mozetič	Jožef Stefan Institute, Ljubljana, Slovenia
Anton Nikiforov	University of Ghent, Belgium

Local Organizing Committee

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Catalin Agheorghiesei	Alexandru Ioan Cuza University of Iasi
Daniela Dobrin	National Institute for Laser, Plasma and Radiation Physics
Gabriela Dorcioman	National Institute for Laser, Plasma and Radiation Physics
Cristina Gerber	Alexandru Ioan Cuza University of Iasi
Ilarion Mihaila	Alexandru Ioan Cuza University of Iasi
Valentin Pohoata	Alexandru Ioan Cuza University of Iasi
Veronica Satulu	National Institute for Laser, Plasma and Radiation Physics
Daniel Stoica	National Institute for Laser, Plasma and Radiation Physics

We would like to thank the sponsors for their generous support

21st International Conference on Plasma Physics and Applications

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Bogdana Mitu	National Institute for Laser, Plasma and Radiation Physics, Romania
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Honorary co-chairs

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Gheorghe Popa	Alexandru Ioan Cuza University of Iasi, Romania

International Scientific Committee

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Local Organizing Committee

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Catalin Vitelaru	National Institute of Optoelectronics
Sorin Vizireanu	National Institute for Laser, Plasma and Radiation Physics
Gabriel Voitcu	Institute of Space Science - legal subsidiary INFLPR

Conference location

The conference will be held at Bucharest Novotel City Centre Hotel, located in the city centre on the prestigious Calea Victoriei, Bucharest's most iconic avenue.

How to reach the venue

Please consider around 1 ½ h for traveling from Henri Coanda airport to Novotel Bucharest City Centre Hotel (Calea Victoriei 37B) and back.

a) By bus: Step down from the arrival hall (level 1) to ground floor (level 0). At level 0, go outside the hall and you are just in the bus station. There is a small office selling tickets (on the right hand). Machines for selling tickets are also available. The bus number is 100. Piata 21 Decembrie 1989 is the last stop. From there, you have to walk for about 7 minutes to reach your destination.

Alternatively, you can take the bus 442 to Pod Baneasa station (11 stops). From there, change to bus 205 for 9 stops and get off to Piata Revolutiei. From there, you have a 3 minutes' walk to reach to Novotel Hotel.

You can pay in the bus by card or by SMS at 7458 texting C for a 90 minutes ticket. Alternatively, tickets for public transportation (tram, trolley, regular bus) can be purchased in advance from dedicated counters (STB should be written on them!).

b) By train: Exit the Arrivals terminal building and follow the "Train" sign; you just have to cross the street and walk to the station. The trains run every 40 minutes, and the trip takes about 20-25 minutes. You can buy tickets online (https://bilete.cfrcalatori.ro/en-GB/Itineraries) or from the vending machines. From Gara de Nord, take the trolleybus 85 direction Baicului and ride for 6 stops to Gradina Cismigiu (Cismigiu Garden). From there, you have a 8 minutes walk to reach to Novotel Hotel. Alternatively, you can take bus 178 (4 stops) to *Sala Palatului – Palace Hall* and walk from there for around 6 minutes to Novotel Hotel.

Registration

The registration fees cover conference materials, lunches and coffee breaks during the symposium, the Welcome reception on Monday, September 1st (only CESPC participants), Galla dinner on Thursday, September 4th, and Excursion on Wednesday, September 3rd.

	Early CESPC	Early CPPA	Late CESPC	Late CPPA
	(before June 2nd)		(after June 2nd)	
Regular	500 EUR	300 EUR	600 EUR	400 EUR
Student*	350 EUR	250 EUR	450 EUR	350 EUR
Accompanying person**	300 EUR	200 EUR	400 EUR	300 EUR

The **registration desk** is situated in the Foyer of the Paris Hall of Novotel Hotel (1st floor) and will be open according to the following schedule:

Monday, September 1st	12:30 – 18:00
Tuesday, September 2nd & Thursday, September 4th	8:30 – 16:30
Wednesday, September 3rd & Friday, September 5th	8:30 – 12:30

Outside these hours you may get information from the organizers, recognizable by their black lanyard

Conference Programme

The conference programme will include invited lectures, oral presentations and poster contributions. The time allocated for presentations is as follows:

- ***Invited Lectures*** (30 min): 25 min presentation + 5 min discussion
- ***Oral Presentations*** (15 min): 12 min presentation + 3 min discussion

The **Poster Sessions** are organized on Tuesday, September 2nd, 16:30 – 18:30, and Thursday, September 4th, 16:15 – 18:15, in the Foyer of the Paris Hall. The recommended poster size is A0 (841 x 1189 mm), portrait orientation. You are kindly requested to hang up the posters before the scheduled session, and to remove them at the end of the poster session.

All the abstracts with at least 1 registered participant are included in the Book of abstracts with ISSN 2344 – 0481, ISSN – L 2344-0481 available on the conference website and in the conference bag

A dedicated space in the Paris Hall is hosting the **Sponsors Exhibition** during the whole duration of the conferences.

Conference Awards for Young Scientists

Young scientist prizes will be awarded for best oral and poster presentations. The committee is composed of the sessions' chairs who will evaluate the candidates of both conferences regarding scientific content, overall knowledge and ability to handle questions, and presentation skills. For the best oral presentation, MSc, PhD students and postdocs will be evaluated, while for the best posters only the MSc and PhD students will be evaluated.

Conference participants from CEI states

In accordance to CEI rules, the participants from CEI countries will be requested to answer a questionnaire for post-implementation evaluation. You will receive this questionnaire after the conference. Please fill it in, making sure to reply accurately to questions regarding the granted benefits. In case you have any doubts, please contact us at cespc-cppa.2025@inflpr.ro.

Lunches and Social Programme

Lunches will take place in the Foyer of the Paris Hall of the Novotel Hotel, from Tuesday September 2nd to Friday, September 5th, from 12:30 to 14:00.

The Social Programme includes:

- ***The Welcome Reception*** – Monday, September 1st, 18:00 – 20:00, Foyer of the Paris Hall.
- ***The Conference Excursion*** – Wednesday, September 3rd, 15:30 – 18:30, consists in a guided tour through Bucharest, according to your choice, namely *Discover Bucharest* or *Hidden Gems of Bucharest*. The meeting point for excursion is in front of the Novotel Hotel after the afternoon session.
- ***The Conference Dinner*** – Thursday, September 4th, 20:00 – 24:00, Grand Hotel Bucharest, Ronda Ballroom (4 Nicolae Balcescu Boulevard).

The final programme is also available on the website.

General information

Time: East European Time zone EET (UTC + 2; or UTC + 3 summer time)

Electricity: Romania operates on a **230-volt, 50 Hz** electrical system, using Type C and Type F plugs common throughout Europe.

Currency: Romania's official currency is the **Romanian leu (RON)**. All official transactions and day-to-day business use the leu. Expected exchange rates listed by the National Bank of Romania (BNR) at the beginning of August are approximately **1 EUR = 5.06 – 5.08 RON** and **1 USD = 4.36 -4.40 RON**. Commercial banks have higher exchange rates.

Weather: In general, September offers some of the most enjoyable weather of the year in Bucharest—warm days (maximum 30 °C), fresh nights (below 18 °C), and plenty of sunshine. It's a perfect time for outdoor activities & sightseeing. Rain is possible but generally light and infrequent. To stay comfortable, bring a light jacket or sweater for evenings and consider modest sun protection during peak daylight hours.

However, take into account this year was unusually warm.

Other events: The 27th edition of the George Enescu International Festival, one of the world's leading classical music festivals, is taking place in Bucharest, Romania, from August 24 to September 21, 2025.

Emergency calls

In the case of any urgent or emergency situation—whether you require police, fire, or medical assistance—dial **national emergency number 112**. The service can be called regardless of your operator and even without a SIM card, also if the phone is locked or has no credit.

Monday, 1st of September

12:30 – 13:45		**REGISTRATION**	

10th Central European Symposium on Plasma Chemistry

13:45 – 14:00		**10TH CESPC Opening**	
	10th CESPC – Session 1		**Chairs: Vandana MILLER, Behnam AKHAVAN**
14:00 – 14:30	**I 01**	**Kristian WENDE**	***Plasma chemistry of biomolecules and its role in disease targeting***
14:30 – 14:45	**O 01**	**Arijana FILIPIĆ**	*Cold plasma ignited in the supercavitation bubble - a novel technology for inactivation of viruses in water*
14:45 – 15:00	**O 02***	**Bernard Gitura KIMANI**	*Combining plasma-activated water with natural phenolics to mitigate yeast biofilm formation and adhesion*
15:00 – 15:15	**O 03**	**Dimitrios KONTZIAMPASIS**	*Decoding plasma surface engineering for heart microenvironment biomimicry*
15:15 – 15:30	**O 04**	**Thierry DUFOUR**	*Cold plasma-enhanced endotherapy: a preclinical breakthrough for bile duct cancer treatment*
15:30 – 16:00	**I 02**	**Daniela BOEHM**	***Plasma deposition as a tool for local cancer drug delivery***
16:00 – 16:30		**COFFEE BREAK**	
	10th CESPC – Session 2		**Chairs: Ester MAROTTA, Dunpin HONG**
16:30 – 17:00	**I 03**	**Christos AGGELOPOULOS**	***Innovative plasma processes for water purification and soil restoration***
17:00 – 17:15	**O 05**	**Sergei PREIS**	*Pulsed corona discharge oxidation of carbamazepine in water and urine*
17:15 – 17:30	**O 06***	**Florin BILEA**	*Interplay of degradation intermediates during plasma treatment of complex organic pollutant solutions*
17:30 – 17:45	**O 07***	**Mohammed ABDULSALAM**	*Plasma-driven degradation of industrial and pharmaceutical emerging contaminants: unraveling synthetic coumarin interactions in DBD treatment*
17:45 – 18:00	**O 08***	**Ioana Cristina GERBER**	*Plasma treated liquid: reactive species production and time evolution*
18:00 – 20:00		**WELCOME RECEPTION – Foyer of the Paris Hall of Novotel City Centre Hotel**	

Tuesday, 2nd of September

8:30 – 9:00		**REGISTRATION**	
	10th CESPC – Session 3		**Chairs: Anna DZIMITROWICZ, Satoshi HAMAGUCHI**
9:00 – 9:30	**I 04**	**Hyun-Ha KIM**	***Opportunity of plasma technology for power-to-X application***
9:30 – 9:45	**O 09***	**Kerstin SGONINA**	*Dielectric barrier discharge in an automated analysis system for high-throughput characterization of plasma-catalysis processes*
9:45 – 10:00	**O 10***	**Aftab JAVAHERI**	*Hydrogen production by ethanol decomposition using a non-self-sustained plasma discharge*
10:00 – 10:15	**O 11**	**Antonio SANTAGATA**	*LIPSS for Li-less lithium metal negative electrodes of secondary aprotic batteries*
10:15 – 10:45	**I 05**	**Vasco GUERRA**	***Microkinetic modelling of heterogeneous recombination in CO_2 plasmas***
10:45 – 11:15		**COFFEE BREAK**	
	10th CESPC – Session 4		**Chairs: Khaled HASSOUNI, Gheorghe DINESCU**
11:15 – 11:45	**I 06**	**Bratislav OBRADOVIĆ**	***Diagnostics of atmospheric pressure discharges via spectral line shape analysis***
11:45 – 12:00	**O 12***	**Alexandre DEVOS**	*Plasma-droplet discharge dynamic and chemical species production*
12:00 – 12:15	**O 13**	**Kinga KUTASI**	*Operation modes of the surfatron generated surface-wave microwave discharge at atmospheric pressure*
12:15 – 12:30	**O 14***	**Alex DESTRIEUX**	*Large scale air decontamination system using dielectric barrier discharge combined with UV activated TiO_2*
12:30 – 14:00		**LUNCH**	
	10th CESPC – Session 5		**Chairs: Dan SUN, Niksa KRSTULOVIC**
14:00 – 14:30	**I 07**	**Ahmad HAMDAN**	***Synthesis of silver nanomaterials by nanosecond discharges with liquid droplet***
14:30 – 14:45	**O 15***	**Rafaela RADICIC**	*UV and solar-driven photocatalysis of organic dyes using ZnO-Ag heterojunction nanoparticles synthesized by one-step laser synthesis in water*
14:45 – 15:00	**O 16**	**Tomy ACSENTE**	*WN-containing dust generated by MSGA cluster source operated in N_2/H_2 mixtures*
15:00 – 15:15	**O 17**	**Andrei Vasile NASTUTA**	*The impact of atmospheric pressure plasma treatment on the additive manufacturing process of commercial-grade polymers*
15:15 – 15:30	**O 18**	**Dusan KOVÁČIK**	*Plasma enhanced adhesion of reinforced fibers in polymer matrices*
15:30 – 15:45	**O 19**	**Lucel SIRGHI**	*Thickness of hardened layer generated by surface treatment of polymethylsiloxane with low-pressure argon plasma*
15:45 – 16:00	**O 20**	**Ion Razvan RADULESCU**	*Flexible textile electromagnetic shields achieved by polypyrrole deposition on plasma activated fabrics*
16:00 – 16:30		**COFFEE BREAK**	

16:30 – 18:30	POSTER SESSION 1

Chairs: Dimitrios KONTZIAMPASIS, Lucel SIRGHI

Surface processes and development of new materials (10th CESPC)

PS1.01	**P05**	**Miran MOZETIC**	*Low-pressure hydrogen plasma as a source of vacuum ultraviolet radiation*
PS1.02	**P06**	**Kostyantyn GRYTSENKO**	*Electron-assisted and plasma-activated deposition in vacuum are the methods for producing stable polymeric films for optoelectronics*
PS1.03	**P07***	**Sahila GAHRAMANLI**	*Analysis of plasma-induced surface modifications on polymers: a comparative study of PA, PP, PC using DCSBD and Piezobrush*
PS1.04	**P08***	**Dominika SMATANOVA**	*Degradadive effect of low-temperature plasma on PVC-P*
PS1.05	**P09**	**Ilarion MIHAILA**	*Sulfur-doping of carbonaceous interstellar dust analogs*
PS1.06	**P10**	**Gheorghe DINESCU**	*Characteristics of laser optical mirrors affected by carbon contamination and plasma cleaning approaches*
PS1.07	**P11***	**Bianca SOLOMONEA**	*Investigating the diffusion of hydrogen isotopes in materials relevant for plasma facing components studies*
PS1.08	**P12***	**Sasa-Alexandra YEHIA-ALEXE**	*Hydrogen isotopes released from beryllium layer by laser induced desorption and laser induced ablation*
PS1.09	**P13***	**Cristina CRACIUN**	*Modeling the growth of thin films and nanoparticles of W and WO_x obtained by laser ablation at room temperature*
PS1.10	**P14**	**Flaviu BAIASU**	*Enhanced properties of tungsten oxynitride thin films deposited by HiPIMS: effect of pulse parameters and substrate biasing*
PS1.11	**P15**	**Alexandru ANGHEL**	*Tungsten borides thin films synthesis by Thermionic Vacuum Arc*
PS1.12	**P16**	**Daniela DOBRIN**	*Angular distribution of multi-elemental oxide thin films grown by pulsed electron beam deposition*
PS1.13	**P17**	**Magdalena NISTOR**	*Surface investigation of doped indium oxide thin films: the role of plasma on film non-stoichiometry*
PS1.14	**P18***	**Elena Isabela BANCU**	*Thin TCO layers deposited over large areas for electromagnetic shielding applications*
PS1.15	**P19***	**Maria Luiza STINGESCU**	*Towards large-area PLD metal oxide layers for Bragg mirrors and optical microcavities*
PS1.16	**P20***	**Maria Elena HURJUI**	*Radio-frequency magnetron sputtering calcium phosphate layers deposited at low rf power*
PS1.17	**P21**	**Piotr JAMROZ**	*The continuous synthesis of noble-based metal nanoparticles by cold atmospheric pressure plasma operated in the flowing liquid mode and their application in the catalytic reduction of nitro compounds to amino compounds*
PS1.18	**P22***	**Catalin CONSTANTIN**	*Investigation of an atmospheric pressure plasma jet for the synthesis of SiO_xC_y materials*

PS1.19	**P23**	**Marta GMUREK**	*Plasma-deposited cobalt oxide thin films: nanostructure engineering for advanced electrochemical catalysis*
PS1.20	**P24***	**Alexandru IAMANDI**	*Laser ablation in liquid: a route to metallic nanoparticle synthesis*
	Environmental protection (10th CESPC)		
PS1.21	**P25**	**Kiran AHLAWAT**	*Plasma under liquid via microbubble discharge: enhanced formation of reactive oxygen and nitrogen species*
PS1.22	**P26***	**Beatrice-Andreea SPINU**	*The degradation of Nystatin in aqueous solution using atmospheric pressure plasma*
PS1.23	**P27***	**Akshara CHITHRAN**	*Degradation of tetracycline using fountain dielectric barrier discharge (FDBD) plasma combined with catalytic nanoparticles.*
PS1.24	**P28**	**Monica MAGUREANU**	*Mixture effects in the plasma-induced degradation of water pollutants*
PS1.25	**P29***	**Cristian ZAGAR**	*Photocatalytic degradation of methylene blue on TiO_2 thin films fabricated by PLD in various atmospheres*
PS1.26	**P30**	**Kinga SKALSKA-TUOMI**	*Beyond micropollutant removal: effects of pulsed corona discharge on wastewater effluent quality*
PS1.27	**P31***	**Gokul SELVARAJ**	*Impact of air humidity, reactor geometry and AC/DC power on electrical and chemical characteristics of discharge in honeycombs*
PS1.28	**P32**	**Ramavtar JANGRA**	*Non-thermal plasma assisted VOCs decomposition: Influence of humidity, residence time, pellet materials*
PS1.29	**P33**	**Iulia ANTOHE**	*Detection of hazardous gases using polyaniline-based chemiresistive sensors*
PS1.30	**P35**	**Iulia ANTOHE**	*Environmental monitoring of various pollutants in water using a portable plasmonic sensor*
PS1.31	**P36***	**Areej FATIMA**	*Plasma modification of photo catalytically active bio-inspired fabrics for the removal of micropollutants from wastewater*
	Bio- and medical plasma technologies (10th CESPC)		
PS1.32	**P37**	**Sorin VIZIREANU**	*Plasma activated water (PAW) for biological applications: preparation and characterization*
PS1.33	**P38**	**Lucel SIRGHI**	*Bactericidal effect of plasma activated water produced by surface dielectric barrier discharge plasma in atmospheric air*
PS1.34	**P39**	**Oleksandr GALMIZ**	*Surface activation and biofilm removal on polymeric tubing by atmospheric pressure plasma*
PS1.35	**P40**	**Augusto STANCAMPIANO**	*Investigating cold atmospheric pressure plasma components and their contribution in multidrug resistant bacterial decontamination*
	Late contributions (10th CESPC)		
PS1.36	**P84***	**Neda BABUCIĆ**	Schlieren imaging of atmospheric microwave plasma interacting with aerosols
PS1.37	**P85***	**Emilia DOBRIN**	Improved performance of alumina-titania layers on heat-resistant steels for renewable energy system

Wednesday, 3rd of September

8:30 – 9:00		REGISTRATION	

21st International Conference on Plasma Physics and Applications

9:00 – 9:15			21ST CPPA Opening
	21st CPPA – Session 1		Chairs: Teddy CRACIUNESCU, Gheorghe POPA
9:15 – 9:45	**I 14**	**Holger KERSTEN**	***Diagnostic of plasma processes for electric space propulsion***
9:45 – 10:00	**O 35**	**Eliza TEODORESCU**	*Turbulence in the Earth's Magnetosheath observed by Cluster and MMS spacecraft between 2017 and 2021*
10:00 – 10:15	**O 36**	**Mugurel BALAN**	*Presentation of RISE activities in the field of space applications*
10:15 – 10:30	**O 37**	**Petr HRUŠKA**	*Advanced control over thin film growth of high-entropy materials using plasma diagnostic*
10:30 – 10:45	**O 38**	**Dragos Iustin PALADE**	*Non-linear transport coefficients in inhomogeneous magnetized plasmas*
10:45 – 11:15		**COFFEE BREAK**	

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	10th CESPC – Session 6		Chairs: Kinga KUTASI, Tomislava VUKUSIC PAVICIC
11:15 – 11:45	**I 08**	**Augusto STANCAMPIANO**	***Plasma and water spray for agriculture: scaling up plasma seeds treatment***
11:45 – 12:00	**O 21***	**Dane LOJEN**	*Plasma hydrophilization of Lomello rice seeds*
12:00 – 12:15	**O 22***	**Petra ŠRÁMKOVÁ**	*Comparison of two non-thermal plasma sources with different configuration on physico-chemical and physiological changes of selected seed types*
12:15 – 12:30	**O 23***	**Mohamed KHALAF**	*Effect of cold atmospheric plasma and plasma-activated water on seeds*
12:30 – 14:00		**LUNCH**	
	10th CESPC – Session 7		Chairs: Nevena PUAC, Augusto STANCAMPIANO
14:00 – 14:30	**I 09**	**Anna DZIMITROWICZ**	***Removal of toxic substances from liquid samples***
14:30 – 14:45	**O 24**	**Iuliana MOTRESCU**	*Seed treatments using non-thermal plasma for stimulation of some nutraceutical compounds in cress sprouts*
14:45 – 15:00	**O 25**	**Ionut TOPALA**	*Effects of long-duration non-thermal plasma treatment and saline stress effects on Quinoa seeds*
15:30 – 18:30		**CONFERENCES EXCURSIONS, according to the choices**	

Thursday, 4th of September

8:30 – 9:00	REGISTRATION

10th Central European Symposium on Plasma Chemistry

	10th CESPC – Session 8		Chairs: Bratislav OBRADOVIC, Milan SIMEK
9:00 – 9:30	**I 10**	**Satoshi HAMAGUCHI**	***Numerical simulation of atomic layer processes for semiconductor manufacturing***
9:30 – 9:45	**O 26***	**Cristian ZAGAR**	*Experimental and computational investigation of different plasmonic materials for SPR based-sensors performance improvement*
9:45 – 10:00	**O 39**	**Khaled HASSOUNI**	*Gas-phase nucleation of nanodiamonds in a microplasma torch*
10:00 – 10:15	**O 27**	**Ovidiu BRINZA**	*Microwave Plasma - Enhanced Chemical Vapor Deposition for diamond growth and diamond applications*
10:15 – 10:30	**O 28**	**Stefan IRIMICIUC**	*Exploring complex dynamics during expansion of laser-produced oxide and nitride plasma via angle- and time-resolved electrical diagnostics*
10:30 – 10:45	**O 29***	**Jiri FUJERA**	*Analysis of complex and overlapping molecular spectra in nitrogen-oxygen-hydrocarbon mixtures: vibrational distributions and rotational temperatures*
10:45 –11:15	**COFFEE BREAK**		

21st International Conference on Plasma Physics and Applications

	21st CPPA – Session 2		Chairs: Vasco GUERRA, Holger KERSTEN
11:15 – 11:45	**I 15**	**Petru GHENUCHE**	***Multi-GeV electrons and GeV photons obtained with a 10 PW laser***
11:45 – 12:00	**O 40**	**Alexei ZUBAREV**	*High-energy electrons generation in a supersonic gas jet interacting with a high intensity laser pulse.*
12:00 – 12:15	**O 41***	**Laura NALBARU**	*Two-solenoid system dedicated to focusing laser-plasma accelerated proton beams for biomedical applications*
12:15 – 12:30	**O 42***	**George-Tony CONSTANTIN**	*Multiphoton ionization in highly charged-heavy ions by leading-order time-dependent perturbation theory*
12:30 – 14:00	**LUNCH**		

10th Central European Symposium on Plasma Chemistry

	10th CESPC – Session 9		Chairs: Christos AGGELOPOULOS, Hyun-Ha KIM
14:00 – 14:30	**I 11**	**Tomislava VUKUŠIĆ PAVIČIĆ**	***Plasma-activated water: a novel approach for food safety and preservation***
14:30 – 14:45	**O 30**	**Magda CABAN**	*Tracking of the transformation products in plasma treated solutions by chromatography and mass spectrometry techniques*

14:45 – 15:00	**O 31**	**Ester MAROTTA**	*Plasma induced degradative desorption of perfluoroalkyl substances from granular activated carbon*
15:00 – 15:15	**O 32***	**Prisca Stephanie KANDJO NGOUBEYOU**	*Enhancing PFOA degradation with non-thermal plasma and Fe-functionalized activated carbon coupling*
15:15 – 15:45	**I 12**	**Milan SIMEK**	***Optical diagnostics relevant to transient plasmas with and in liquids - spatiotemporal resolution matters***
15:45 – 16:15		COFFEE BREAK	
16:15 – 18:15			**POSTER SESSION 2**

Chairs: Thierry DUFOUR, Dragos Iustin PALADE

Plasma fundamentals, modelling and diagnostics (10th CESPC)

PS2.01	**P01**	**Jakub KELAR**	*Dual frequency DBD air at atmospheric pressure*
PS2.02	**P02**	**Andreea GROZA**	*Spectral and electrical characterization of magnetron radio frequency discharge for calcium phosphate depositions*
PS2.03	**P03**	**Daniel STOICA**	*Characteristics of a magnetron plasma used for the synthesis of nanometric W dust in H_2/N_2 gas mixtures*
PS2.04	**P04**	**Mariana OSIAC**	*Study of laser-produced tungsten oxide plasma using optical emission spectroscopy*

Gas discharge physics, modelling, simulation and diagnostics. Space plasmas (21st CPPA)

PS2.05	**P54**	**Ahmad HAMDAN**	*Nanosecond discharge over water: experimental and simulation of streamer dynamics*
PS2.06	**P55**	**Bogdana MITU**	*Time and space resolved investigations of plasma generated upon the interaction of a ns Nd:YAG laser with Be target*
PS2.07	**P56**	**Eliza TEODORESCU**	*X-ray visibility of plasma structures colliding with neutrals in the Earthâ€™s upper exosphere*
PS2.08	**P57**	**Daniel DUMITRU**	*Estimation of wave vector (kz) in Travelling Ionospheric Disturbances based on Deep Learning Models*
PS2.09	**P58**	**Valentina MARASCU**	*Cold plasma discharge-based cryptography strategies for secure communications*

Plasma sources and reactors at low and atmospheric pressure, dusty plasmas, and laser plasmas (21st CPPA)

PS2.10	**P59**	**Alexei ZUBAREV**	*TD-DFT simulations for laser interaction with solid targets and estimation of preplasma generation moment*
PS2.11	**P60**	**Khaled HASSOUNI**	*Carbon particle nucleation in microwave plasma*
PS2.12	**P61**	**Mihail CERNAIANU**	*Engineering of carbon targets using LIFT for ion acceleration applications*
PS2.13	**P62**	**Tomy ACSENTE**	*The stability range of a plasma jet generated by an MSGA cluster source*
PS2.14	**P63**	**Mostafa Elsayed HASSAN**	*Effect of water and argon admixture on the characteristics of N_2 dielectric barrier discharge plasma*

		Plasma for energy. Fusion plasma physics and technology (21st CPPA)	
PS2.15	**P64***	**Ligia M. POMARJANSCHI**	*Collisional effects on turbulent transport in tokamak devices*
PS2.16	**P65**	**Teddy CRACIUNESCU**	*Symbolic dynamics for fusion plasma disruption prediction*
PS2.17	**P66**	**Cristian IORGA**	*Theoretical evaluation of nonsequential two-photon decay J=0-J=0 transition rates in metastable levels of highly-charged heavy ions*
PS2.18	**P67**	**Cornel STAICU**	*The retention properties of boron thin film related for nuclear fusion applications*
		Plasma material processing: surface treatment, thin film deposition and etching, plasma assisted micro and nano-fabrication (21st CPPA)	
PS2.19	**P68**	**Natalie TARASENKA**	*Fabrication of multi-metallic nanomaterials by low temperature plasma in liquid technique*
PS2.20	**P69***	**Chenxing LIU**	*Microplasma-assisted synthesis of AuNP/Keratin nanocomposites*
PS2.21	**P70**	**Claudiu COSTIN**	*Surface morphology of a sputtered magnetron target*
PS2.22	**P71**	**Catalin VITELARU**	*Investigation of $NiCrC_x$ nanostructured coatings obtained by Thermionic Vacuum Arc, for industrial applications*
PS2.23	**P72**	**Catalin VITELARU**	*Optimization of Cu-SiC_xN_y multilayer structures for enhanced low emissivity performance*
PS2.24	**P73**	**Gabriela PETRE**	*Pulsed laser deposition of ITO films on flexible substrates for organic optoelectronics*
PS2.25	**P74***	**Maria Luiza STINGESCU**	*Hole transport layers for organic solar cell applications*
PS2.26	**P75***	**Cristina CRACIUN**	*Nanostructured oxides processing for electrochromic devices*
PS2.27	**P76**	**Florin GHERENDI**	*Plasma deposition of Y_2O_3 thin films as high-k dielectrics for transistor gate insulator*
PS2.28	**P77***	**Maria-Adela TANASE**	*BST thin films on large areas*
PS2.29	**P78***	**Cristina CRACIUN**	*Controlling IR emissivity with VO_2 thin films*
PS2.30	**P79**	**Bogdan BUTOI**	*Plasma-deposited polyaniline thin films as functional alignment layers in liquid crystal displays*
PS2.31	**P80**	**Jitka NEORALOVA**	*Research project "Use of plasma for treatment of library collections"*
		Plasma for agriculture and food (10th CESPC)	
PS2.32	**P41**	**Plamena MARINOVA**	*Plasma wastewater treatment for agriculture reuse*
PS2.33	**P42**	**M.A. CIOLAN**	*Modification of the surface of seeds processed in atmospheric non-thermal plasma in different conditions*
PS2.34	**P43***	**Jiri FUJERA**	*Quantifying plasma dose for seed treatment by amplitude-modulated dielectric barrier discharges in dry air at atmospheric pressure*
PS2.35	**P44**	**Andrei Vasile NASTUTA**	*The impact of direct and indirect plasma treatment on the germination of wheat seeds*
PS2.36	**P45**	**Petra ŠRÁMKOVÁ**	*Plasma technology for enhanced seed germination and polymer coating adhesion*
PS2.37	**P46**	**Thierry DUFOUR**	*Impact of cold plasma and UV radiation on Alfalfa seed germination and phytochemical enrichment*
PS2.38	**P47**	**Dorina TICOS**	*Impact of botanical source on non-thermal plasma-induced modifications in starch*

PS2.39	**P48**	**Dorina TICOS**	*Controlling starch modification pathways by radio-frequency plasma treatment parameters*
PS2.40	**P49***	**Franka MARKIĆ**	*Optimization of plasma-activated water production: The role of electron paramagnetic resonance in free radical detection*
PS2.41	**P50***	**Ramin MEHRABIFARD**	*Stability of reactive species produced in plasma activated water by various atmospheric pressure plasmas*
PS2.42	**P51**	**Adriana MISUTHOVA**	*Effect of plasma-activated water on Lactuca sativa L. growth and development in hydroponic cultivation system*
PS2.43	**P52**	**Adriana MISUTHOVA**	*Comparison of three plasma-activated water systems on the growth and germination of Lactuca sativa L. plants*
PS2.44	**P53**	**Cristian STANCU**	*Atmospheric pressure plasma treatment as an effective tool for pest control*
		Plasma applications in environment, biology, medicine & agriculture (21st CPPA)	
PS2.45	**P81***	**Adriana Florica BOGOSEL**	*Thermal response of cold atmospheric plasma via dielectric barrier discharge*
PS2.46	**P82**	**Nevena PUAC**	*Influence of Zn^{+} and zinc compounds on characteristics of Plasma Activated Water*
PS2.47	**P83**	**Andrei Vasile NASTUTA**	*An investigation into the impact of atmospheric pressure plasma on the sensory and physicochemical characteristics of some young wines*
20:00 – 24:00		**CONFERENCES DINNER - Ronda Ballroom of Grand Hotel Bucharest**	

Friday, 5th of September

8:30 – 9:00	REGISTRATION	

10th Central European Symposium on Plasma Chemistry

10th CESPC – Session 10			Chairs: Ahmad HAMDAN, Dusan KOVACIK
9:00 – 9:15	**O 33***	**Neja Bizjak ŠTRUS**	*Effect of DCSBD plasma degreasing on the visual properties of varnished wood*
9:15 – 9:30	**O 34**	**Niksa KRSTULOVIĆ**	*Advanced protection of wooden artefacts by atmospheric pressure plasma jet*
9:30 – 10:00	**I 13**	**Vandana MILLER**	***Determinants of plasma dose in plasma medicine: role of the biological target***
10:00 – 10:30		**COFFEE BREAK**	

21st International Conference on Plasma Physics and Applications

21st CPPA – Session 3			Chairs: Miran MOZETIC, Catalin VITELARU
10:30 – 11:00	**I 16**	**Behnam AKHAVAN**	***Cold plasma processes for biofabrication, functional interfaces, and Next-Gen medical devices***
11:00 – 11:15	**O 43**	**Cristian URSU**	*Hybrid thermoregulatory nanocomposites developed for personal thermal comfort and camouflage*
11:15 – 11:30	**O 44**	**Maxime WARTEL**	*Study of plasma-liquid interactions for the activation of aqueous solutions by non-thermal plasma: Application to micro-pollutants removal*
11:30 – 11:45	**O 45**	**Natalie TARASENKA**	*Non-equilibrium plasma-assisted nanofabrication and doping of multimetal perovskite nanomaterials in liquids*
11:45 – 12:15	**I 17**	**Dan SUN**	***Functional nanocomposites synthesized through atmospheric pressure plasma induced liquid chemistry***
12:15 – 12:30			**Conferences closing and awards**
12:30 – 14:00			**LUNCH**

Note: The presentations codes are related to the order of presenters, as included in the conferences Book of Abstracts.

10th Central European Symposium on Plasma Chemistry
&
21st International Conference on Plasma Physics and Applications

Short Programme

	Monday 1st September	Tuesday 2nd September	Wednesday 3rd September	Thursday 4th September	Friday 5th September
8:30 - 8:45					
8:45 - 9:00		Conference registration	Conference registration	Conference registration	Conference registration
9:00-9:15		I 04	21st CPPA opening	I 10	O 33 **STRUS**
9:15-9:30		**KIM**	I 14	**HAMAGUCHI**	O 34 **KRSTULOVIC**
9:30-9:45		O 09 **SGONINA**	**KERSTEN**	O 26 **ZAGAR**	I 13
9:45-10:00		O 10 **JAVAHERI**	O 35 **TEODORESCU**	O 39 **HASSOUNI**	**MILLER**
10:00-10:15		O 11 **SANTAGATA**	O 36 **BALAN**	O 27 **BRINZA**	
10:15-10:30		I 05	O 37 **HRUSKA**	O 28 **IRIMICIUC**	Coffee break
10:30-10:45		**GUERRA**	O 38 **PALADE**	O 29 **FUJERA**	I 16
10:45-11:00					**AKHAVAN**
11:00-11:15		Coffee break	Coffee break	Coffee break	O 43 **URSU**
11:15-11:30		I 06	I 08	I 15	O 44 **WARTEL**
11:30-11:45		**OBRADOVIC**	**STANCAMPIANO**	**GHENUCHE**	O 45 **TARASENKA**
11:45-12:00		O 12 **DEVOS**	O 21 **LOJEN**	O 40 **ZUBAREV**	I17
12:00-12:15		O 13 **KUTASI**	O 22 **SRAMKOVA**	O 41 **NALBARU**	**SUN**
12:15-12:30		O 14 **DESTRIEUX**	O 23 **KHALAF**	O 42 **CONSTANTIN**	Conferences Closing / Awards
12:30-13:45	Conference registration				
13:45-14:00	10th CESPC opening	Lunch	Lunch	Lunch	Lunch
14:00-14:15	I 01	I 07	I 09	I 11	
14:15-14:30	**WENDE**	**HAMDAN**	**DZIMITROWICZ**	**VUKUSIC PAVICIC**	
14:30-14:45	O 01 **FILIPIC**	O 15 **RADICIC**	O 24 **MOTRESCU**	O 30 **CABAN**	
14:45-15:00	O 02 **KIMANI**	O 16 **ACSENTE**	O 25 **TOPALA**	O 31 **MAROTTA**	
15:00-15:15	O 03 **KONTZIAMPASIS**	O 17 **NASTUTA**		O 32 **NGOUBEYOU**	
15:15-15:30	O 04 **DUFOUR**	O 18 **KOVACIK**		I 12	
15:30-15:45	I 02	O 19 **SIRGHI**		**SIMEK**	
15:45-16:00	**BOEHM**	O 20 **RADULESCU**			
16:00-16:15				Coffee break	
16:15-16:30	Coffee break	Coffee break			
16:30-16:45	I 03				
16:45-17:00	**AGGELOPOULOS**				
17:00-17:15	O 05 **PREIS**				
17:15-17:30	O 06 **BILEA**				
17:30-17:45	O 07 **ABDULSALAM**				
17:45-18:00	O 08 **GERBER**				
18:00-18:15			Excursion	Poster session 2	
18:15-18:30		Poster session 1	15:30 - 18:30		
18:30 - 20:00	Welcome reception 18:00 - 20:00				
20:00 - 24:00				Conference Dinner 20:00 - 24:00	

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