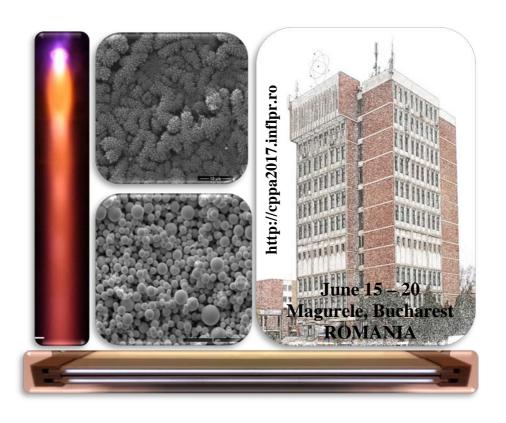
17th INTERNATIONAL CONFERENCE ON PLASMA PHYSICS AND APPLICATIONS



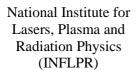


Programme



Organized by:







"Alexandru Ioan Cuza" University



Romanian Physical Society

Sponsorhip:











Conference Chairs

Gheorghe Dinescu, National Institute for Lasers, Plasma and Radiation Physics (INFLPR), Bucharest, Romania

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R. Vladoiu, Ovidius University,

Constanta

G. Voitcu, INFLPR-ISS,

Bucharest

Conference e-mail address: cppa2017@infim.ro
Conference website: http://cppa2017.inflpr.ro

GENERAL INFORMATION

Conference location

The Conference will be held in Magurele Campus of Physics. It is located about 12 km from the center of Bucharest. A special bus was appointed in order to facilitate the transport of the participants from the centre of Bucharest to the conference location. In addition, the Conference place is reachable by public transportation. Please, find more details in the section Transportation.

Registration

The registration desk is open as follows:

Thursday, June 15 th	During Welcome Reception (at Hanu Berarilor)	19:00 – 21:00
From Friday, June 16 th , till Monday, June 19 th	Conference Hall	08:30 – 09:00 and during coffee breaks

Accommodation

The Local Organizing Committee has negotiated special rates with several hotels. Please, save the address and telephone number of your hotel in order to be able to contact the reception.

Hotel name and address	Telephone, e-mail and website
Europa Royale Bucharest, 4* 60 Franceza Str., Bucharest	+40 21 3191798 SM.Bucharest@EuropaRoyale.com http://www.europaroyalebucharest.com
Bucharest Comfort Suites, 4* 16 Nicolae Balcescu Blv., Bucharest	+4 021 3102885 office@comfort-suites.ro http://www.comfort-suites.ro/EN/hotel.html
IBIS Palatul Parlamentului City Centre, 3* 82-84 Izvor Str., Bucharest	+40 21 4011011 <u>H5938-RE@accor.com</u> http://www.ibishotels.ro/
Magurele Hotel, 2* 250A Atomistilor Str., Magurele	+40 21 4575269 rezervari@hotelmagurele.ro http://hotelmagurele.ro/?lang=2

Attendees are free to choose their accommodation elsewhere, making direct reservations in other hotels.

Transportation

a) from airport to the city centre (Piata Unirii, hotel Europa Royale, Hanul Manuc)

By taxi: Just after exiting, inside the waiting hall, there are automatic machines with touch screens where you can appoint a taxi. Press the screen for a taxi company like Meridian, Cobalcescu, Cristaxi -looking for ones which have a price of 1.39 lei/km (higher prices- up to 10 times more - are also available for more fancy taxis). The machine will provide you a small ticket with the name of the company, taxi numbers – there are two numbers, and the time of arrival after order (usually a few minutes). Take the ticket and go outside the airport door where you will see taxis. Look at the company name and number as inscripted on taxis and go to the one indicated on ticket. Handle the ticket to the driver – your destination is "Piata Unirii" – Hotel Europe Royale (near "Hanul Manuc"). Normal taxi is cheap in Romania and you have to pay about 8-10 Euro (35-50 lei) from airport to the hotel.

Please, notice that the local currency is "lei" (RON). Exchange rate is about 1 euro=4.5 lei. We recommend you to change about 15-20 euro in the airport for covering the cost of the taxi or bus.

By bus: Alternatively, there are regular buses from airport to the centre. 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 buses station. There is a small office selling tickets (on the right hand). The price of a ticket is about 2 Euro (2 ways). The bus number is 783. For Comfort Suites hotel step down at University stations. Piata Unirii is the last station. Nearby, is the hotel Europe Royale, close to "Hanul Manuc", where there is a Starbucks coffee shop on the ground floor. More details on the bus are on "http://www.ratb.ro/v bus expres.php?tlin1=783", where you can find also a map (harta) with the bus trajectory. On various maps, you can find Piata Unirii 1, or Piata

Unirii 2, or Piata Unirii 3 as name for the bus station. Do not be confused, these points are very closed to each other and to the Europa Royale hotel.

b) from City centre (Piata Unirii, hotel Europa Royale, Hanul Manuc) to the Conference site in Magurele

By CPPA organizers. The organizers have appointed a bus in order to facilitate the transport of the participants from the centre of Bucharest to the conference location. You will identify the bus easily as it will be properly signalized on the front window with the conference logo and name.

The basic bus schedule is based on a daily morning departure from Bucharest centre to Magurele and return in the Bucharest at evening.

Departure from Bucharest: at 08:00 in the morning.

Meeting point: in front of Europa Royale Hotel on Splaiul Independentei Street (turn right and walk 30 m as you exit the hotel, and go in the front of the "DM" market). Please, respect the departure time of the bus, due to the intense traffic it can stop only a few minutes in the front of hotel.

Departure from Magurele: at about 18:30, on Friday and Monday, *meeting point* in front of the Conference Hall, and at the lunch time on Saturday and Tuesday.

Please, note that a bus transport will be arranged also each day, at the mid-day time. The detailed schedule of the bus will be provided at registration.

By public transportation:

Take the tramway 32 from Piata Unirii and step down to the station "Antiaeriana" (approx. 20 min). Tickets (or cards) from tram should be purchased in advance, from the RATB kiosk sitated in the proximity of the station. The cost of a way (should be obliterated at the machine in the tram wagon) is about 1.5 lei (~33 eurocents). From Antiaeriana take a minibus to Magurele. The ticket in minibus are paid directly to the driver (2.5 lei ~ 50 eurocent). Step down at IFA tower, and behind the tower you will see the banner of the Conference.

Meals

The restaurant "Sytago", placed in the proximity of the Conference Hall, has been apppointed for serving the lunch on Friday, June 16th; Saturday, June 17th; Monday, June19th and Tuesday, June 20th. The meal tickets will be prepared for you at the Registration desk, according to the selection you made on your Registration form. Additional tickets, to be purchased one day in advance, will be available at the Registration desk. The price for a lunch ticket is about 7 EUR or equivalent 30 lei. There are also other restaurants available in Magurele.

Social Program

Bucharest is the capital of Romania, a city with rich history and interesting monuments. There are many possibilities for spending your free time in the old city, such as visiting museums, or having a traditional dish in the local restaurants, etc. Free time is provided on Saturday afternoon for visiting the city by yourself.

❖ Welcome reception – Thursday, June 15th, 19:00-21:00

The Welcome reception will take place at Hanu' Berarilor Casa Soare (in the garden) situated on Poenaru Bordea Street, no. 2, just 10 minutes walking distance from the Hotel Europa Royale. Also, we will have a registration desk here. All participants, accompanying persons and sponsors are welcomed to the reception. A person from the organizers will pick you up from the hotel at 18:50.

Exercision – Sunday, June 18th, 08:00 – 17:30

The excursion is scheduled on Sunday, June 18th, to Prahova Valley. It will combine the visit to Sinaia monastery (1695), the fabulous Peles Castle (a masterpiece of German new-Renaissance architecture, former summer residence of the Royal family), and a wine tasting moment at the Halewood winery.

The departure hours are 08:00 from Bucharest, Europa Royale Hotel and 07:30 from Magurele, Magurele Hotel.

❖ Conference dinner – Sunday, June 18th, 19:00 – 23:00

Conference dinner will take place on Sunday evening, at "Caru cu Bere" restaurant, situated on 5 Stavropoleos Street.

CONFERENCE PROGRAMME

Joint events:

- 1st Workshop on Plasma Coatings for Medical Applications, organized co-jointly by National Institute of Lasers Plasma and Radiation Physics and University of Gent, in the frame of the M-ERA.NET project PlasmaTex.
- Visits at the INFLPR laboratories and at the Extreme Light Infrastructure Nuclear Physics ELI-NP, at IFIN-HH
- Exhibition presenting companies products, and recent developments based on Romanian plasma research;

The Conference combines plenary sessions with invited and oral presentations, and two poster sessions. Plenary sessions are held in Magurele in the Conference Hall situated in the proximity of National Library of Physics.

The speakers of the invited and oral presentations are kindly asked to upload their presentations (as PowerPoint file) two sessions in advance, on the technical desk. Due to the tight program and the bus schedule, you are asked not to exceed the time allocated for the presentation, as following:

Duration of invited talks: $25 \min + 5 \min$ for discussion Duration of oral presentations: $17 \min + 3 \min$ for discussion

The poster sessions will be accommodated in the National Library of Pysics. They are programmed as Session I, on F afternoon (Topics 1, 2, 4, 5), respectively Session II, on Monday afternoon (Topics 3, 6, 7, 8). Recommended poster size in A0 (841 x 1189 mm), portrait orientation.

The participants are kindly asked to hang up their posters in the morning of their scheduled session, and to remove them at the end of Poster session.

The location of the buildings of interest for the Conference are presented below:



CPPA 2017 Conference Programme

Priday, June 16 th 08:30 09:00 Opening Morning session 1 - Chair: Farzaneh Arefi-Khonsari 09:20 09:50 10:20 10:40 O-21 C. Vitelaru - Reactive magnetron sputtering of oxides, nitrides and oxy-nitrides: from process characterization to tunable thin films O-17 S. Tabibian - Modeling and experimental Study of a Wurster type fluidized bed reactor coupled with an atmospheric pressure plasma jet (APPJ) for the treatment of polypropylene (PP) powders S. Ben Saïd - Study of the plasma polymerization of 3-aminopropyltrictoxysilane (APTES) by an open-air atmospheric arc plasma jet for in-line treatments A. Zubarev - Synthesis of exotic carbon material in non-equilibrium dense plasmas 15:30 15:50 O-15 L. Sirghi - Stoichiometry of thin oxide films deposited by reactive high power impulse magnetron sputtering C. Negrea - Investigating the Seasonal Variability of the Mid-Latitude Traveling Ionospheric Disturbances using Dynasonde Data and a New Spectral Analysis Technique C. Iorga - Theoretical investigation of x-ray lasing in argon by photo-ionization from K and L shells T. Ahmadi - 1D Particle in Cell (PiC) Simulation Cell (PiC) Simulation College - T. Ahmadi - 1D Particle in Cell (PiC) Simulation College - T. Ahmadi - 1D Particle in Cell (PiC) Simulation College - T. Ahmadi - 1D Particle in Cell (PiC) Simulation College - T. Ahmadi - 1D Particle in Cell (PiC) Simulation College - T. Ahmadi - 1D Particle in Cell (PiC) Simulation College - College - Cell (PiC) Simulation College - Cellege - Cel	Thursday	, June 15 ^{tl}	ı	
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O9:50 O9:50 I-03 G. Henrion - Plasma electrolytic oxidation: stakes and limits				
and limits J. Pulpytel - Bonding of composite materials by means of atmospheric plasma jet C. Vitelaru - Reactive magnetron sputtering of oxides, nitrides and oxy-nitrides: from process characterization to tunable thin films 10:40 11:00 Coffee break - Conference Hall Morning Session 2 - Chair: Gerard Henrion 11:00 11:20 O-17 S. Tabibian - Modeling and experimental Study of a Wurster type fluidized bed reactor coupled with an atmospheric pressure plasma jet (APPJ) for the treatment of polypropylene (PP) powders S. Ben Saïd - Study of the plasma polymerization of 3-aminopropyltrietoxysilane (APTES) by an open-air atmospheric arc plasma jet for in-line treatments A. Dascalu - Reactive species in water activated by surface DBD plasma in air A. Zubarev - Synthesis of exotic carbon material in non-equilibrium dense plasmas 12:20 13:40 Lunch Afternoon session - Chair: Florin Spineanu 15:10 15:30 O-15 L. Sirghi - Stoichiometry of thin oxide films deposited by reactive high power impulse magnetron sputtering C. Negrea - Investigating the Seasonal Variability of the Mid-Latitude Traveling Ionospheric Disturbances using Dynasonde Data and a New Spectral Analysis Technique C. Iorga - Theoretical investigation of x-ray lasing in argon by photo-ionization from K and L shells				
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of Slow Mode Shock in Magnetized Plasma	10.10	10.50	0-02	
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16:50 18:25 Poster session I – National Library of Physics				
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$Saturday, June~17^{th}, 1^{st}~Workshop~on~Plasma~Coatings~for~Medical~Applications$

00.43	09.00	Registrati	OII
Morning	g session 1 –	Chair: Cris	tophe Leys
09:00	09:30	I-06	A. Nikiforov - Plasma deposition of antibacterial
			coatings

09:30	10:00	I-01	D. Duday - Antibacterial activity of cold
10:00	10:20	O-20	atmospheric plasma jets and novel drug-loaded nanoparticles embedded in scaffolds or patches A.V. Omran - Atmospheric pressure surface
			modification and cross-linking of UHMWPE film by transporting discharge
10:20	10:40	Coffee br	eak – Conference Hall
Morning se	ession 2 –	Chair: Dav	vid Duday
10:40	11:10	I-02	M. Gherardi - Deposition of polymeric films and
			co-deposition of nanocomposite coatings by means
			of a cold atmospheric pressure plasma jet
11:10	11:40	I-10	J.L. Walsh - Plasma biofilm decontamination:
			What happens to the underlying surface?
11:40	12:00	O-14	A. Palla Papavlu - Laser evaporation of polymers
			for medical applications
12:00	13:20	Lunch	
Afternoon	session –	Chair: Ant	on Nikiforov - PlasmaTex project
13:20	13:40	O-07	V. Elinson - Study of surface topography and
			antifungal activity of fluorocarbon nanostructures,
			formed on polyethylene terephthalate surface by
			ion-plasma technique
13:40	14:00	O-08	E.R. Ionita - Characterization of a cylindrical
			shaped plasma jet with axisymmetric injection of
			precursors
14:00	15:00		Reports and Discussions
	4 oth		
Sunday, J			D 1 17 H
08:00	17:30		Prahova Valley
19:00	23:00	Conferen	ce Dinner @ CARU CU BERE

Mon	dav.	June	19 th

08:45	09:00	Registration	on
Morning se	ession 1 –	Chair: Gheo	orghe Dinescu
09:00	09:30	I-09	R. van de Sanden - Plasma non-equilibrium at
			work: key to success of energy technologies?
09:30	10:00	I-04	O. Kylian - Low-pressure plasma synthesis of
			nanomaterials
10:00	10:20	O-10	C. Grisolia - Estimation of the tritium retention in
			ITER Tungsten divertor target using macroscopic
			rate equation simulations
10:20	10:40	O-01	T. Acsente - Tailoring the morphology and
			structural properties of tungsten nanoparticles
			produced by magnetron sputtering and gas
			aggregation
10:40	11:00	Coffee bre	ak – Conference Hall
Morning se	ession 2 –	Chair: Gheo	orghe Popa
11:00	11:20	O-06	M. Echim - Plasma complexity: methods and
			observations

11:20	11:40	O-16	F. Spineanu - Formation of an Internal Transport Barrier due to neutral beam injection during current ramp-up in tokamak
11:40	12:00	O-22	M. Vlad - Radial pinch produced by the gradient
			of turbulence amplitude in tokamak plasmas
12:00	12:20	O-23	G. Voitcu - Kinetic simulations of plasma jets
			interaction with increasing magnetic fields
12:20	13:40	Lunch	
14:10	14:40	I-11	N.V. Zamfir - Extreme light infrastructure -
			nuclear physics (ELI-NP): status and perspectives
14:40	16:20	Visit of the	ne ELI-NP facility, IFIN-HH
16:30	16:50	Coffee br	eak – National Library of Physics
16:50	18:25	Poster Se	ssion II – National Library of Physics

Tuesday, June 20th

Tuesday,	June 20		
Morning s	ession 1 –	Chair: C. F	ocsa
09:00	09:30	I-07	N. Puač - Time resolved optical spectroscopy of
			high frequency atmospheric pressure plasma jets
09:30	10:00	I-05	B. Mitu - Process diagnostics during nanocarbon
			growth by RF plasma jet
10:00	10:20	O-03	C. Anastassiou - Understanding the bullet
10.00	10.20	0 05	evolution and its interaction with dielectrics in a
			capillary helium plasma jet
10:20	10:40	O-19	
10:20	10:40	0-19	I. Topala - Deposition of interstellar carbon dust
			analogs using barrier discharge driven by
			nanosecond high voltage pulses
10:40	11:00		eak – Conference Hall
Morning s	ession 2 –	Chair: C. G	Frisolia
Morning s 11:00	ession 2 – 11:20	Chair: C. G O-09	crisolia C. Focsa - Transient plasmas generated by
			C. Focsa - Transient plasmas generated by
			C. Focsa - Transient plasmas generated by femtosecond laser ablation of selected metals: Influence of the target physical properties on the
			C. Focsa - Transient plasmas generated by femtosecond laser ablation of selected metals: Influence of the target physical properties on the plume dynamics
11:00	11:20	O-09	C. Focsa - Transient plasmas generated by femtosecond laser ablation of selected metals: Influence of the target physical properties on the
11:00 11:20	11:20 11:40	O-09 O-18	C. Focsa - Transient plasmas generated by femtosecond laser ablation of selected metals: Influence of the target physical properties on the plume dynamics C.M. Ticoş - A pulsed plasma jet for dusting off surfaces on Mars
11:00	11:20	O-09	C. Focsa - Transient plasmas generated by femtosecond laser ablation of selected metals: Influence of the target physical properties on the plume dynamics C.M. Ticoş - A pulsed plasma jet for dusting off surfaces on Mars V. Zoita - Performance of the neutron attenuators
11:00 11:20 11:40	11:20 11:40 12:00	O-09 O-18 O-24	C. Focsa - Transient plasmas generated by femtosecond laser ablation of selected metals: Influence of the target physical properties on the plume dynamics C.M. Ticoş - A pulsed plasma jet for dusting off surfaces on Mars V. Zoita - Performance of the neutron attenuators for the JET gamma-ray cameras
11:00 11:20	11:20 11:40	O-09 O-18	C. Focsa - Transient plasmas generated by femtosecond laser ablation of selected metals: Influence of the target physical properties on the plume dynamics C.M. Ticoş - A pulsed plasma jet for dusting off surfaces on Mars V. Zoita - Performance of the neutron attenuators for the JET gamma-ray cameras M. Lungu - Non-destructive analysis of fusion
11:00 11:20 11:40	11:20 11:40 12:00	O-09 O-18 O-24 O-12	C. Focsa - Transient plasmas generated by femtosecond laser ablation of selected metals: Influence of the target physical properties on the plume dynamics C.M. Ticoş - A pulsed plasma jet for dusting off surfaces on Mars V. Zoita - Performance of the neutron attenuators for the JET gamma-ray cameras

Note: The code of the presentations is related to the alphabetical order of presenters, as included in the Book of Abstracts of the conference

Poster se	ession I, Topics 1, 2, 4 and 5 – Friday, June 16 th , 16:50 – 18:25
Topic 1:	Fundamental processes in plasmas, modeling and simulation, space
plasmas	
P1-01	Modelling of wall currents excited by plasma wall-touching kink and vertical modes during a tokamak plasma disruption C.V. Atanasiu , L.E. Zakharov, K. Lackner, M. Hoelzl, E. Strumberger
P1-02	Simulation of magnetron sputtering deposition of titanium nanopatterns on substrates with colloidal masks C. Costin, A. Demeter, V. Tiron, L. Sirghi
P1-03	Transport of cold ions in tokamak microturbulence
	A. Croitoru
P1-04	Self-modulation of the discharge current oscillations in the presence of a complex space charge configuration in low-temperature plasma S.A. Irimiciuc , D.G. Dimitriu, M. Agop
P1-05	Numerical and experimental investigation of the effect of N ₂ and O ₂ admixtures in a helium dielectric barrier discharge C. Lazarou, A.S. Chiper, C. Anastassiou, V. Pohoata, I. Mihaila, I. Topala and G.E. Georghiou
P1-06	Momentum Deposition by Acoustic Gravity Waves in the Thermosphere- Ionosphere above Wallops Island, VA. C. Negrea, N. Zabotin, O. Godin, T. Bullett
P1-07	Kinetic corrections and rotational flows in the 2D turbulence of quantum plasmas D.I. Palade , V. Baran
P1-08	Mathematical modelling of plasma treatment parameters for the hydrophobization process of fabrics I.R. Radulescu, L. Surdu, L. Dinca, E. Visileanu, V. Satulu, B. Mitu
P1-09	Turbulence in space plasmas – a statistical approach E. Teodorescu , M. Echim
P1-10	Role of textured dielectric layer on the time-space behavior of the barrier
	discharge
	I. Topala, G. Borcia
Topic 2:	Gas discharge physics and plasma diagnostics
P2-01	On the validity of using the spectra of diatomic molecules for
	determination of gas temperatures in plasmas
	M. Bazavan, M. Teodorescu, G. Dinescu
P2-02	Opto-spectral analysis of a single filament atmospheric plasma jet
	generated in argon
	M Tendorescu M Bazavan G Dinescu

- **M. Teodorescu**, M. Bazavan, G. Dinescu
- P2-03 Electron temperature determination of Bismuth containing electrodeless light sources during self-modulation regime

 Z. Gavare, M. Zinge, A. Skudra, E. Bogans
- P2-04 Studies of thallium containing high-frequency electrodeless lamps **Z. Gavare**, G. Revalde, A. Abola, A. Skudra, N. Zorina
- P2-05 Reactive magnetron sputtered SiCx thin films: a correlation between their optical properties and OES process characterization

 I. Pana, C. Vitelaru, A. Kiss, M. Braic
- P2-06 Influence of C₂H₂/H₂ ratio on the plasma parameters and on the morphology of carbon films obtained by PECVD **S.D. Stoica**, S. Vizireanu, B. Mitu, G. Dinescu

- P2-07 Reactive sputtering of carbon target under HiPIMS conditions for the deposition of DLC coatings
 - C. Vitelaru, M. Dinu, A.C. Parau, L. Constantin, A.E Kiss
- P2-08 Rotational and electron temperature determination in argon and hydrogen containing high-frequency electrodeless lamps

 M. Zinge, Z. Gavare, A. Skudra

Topic 4: Plasma processing, surface modification, deposition, etching

- P4-01 Development of Hybrids Nanocomposites materials based on Graphene and siloxane polymer by Low Pressure and DBD Discharges to Improve the Corrosion Behaviour of Steel
 - **A. Anagri**, F. Arefi-Khonsari, C. Debiemme-Chouvy, M. Tran, J. Pulpytel, A. Baitukha
- P4-02 Plasma activation of silica surface for self-assembled monolayer deposition of octadecyltrichlorosilane
 - A. Besleaga, F. Samoila and L. Sirghi
- P4-03 Hydrogen content of carbon nanowalls obtained by PECVD at different parameters of synthesis
 - **M.** Acosta Gentoiu, S. Vizireanu, I. Burducea, S.D. Stoica, B. I. Bita, I. Mihalache, C. Grigorescu, S. Antohe, G. Dinescu
- P4-04 Sub-micrometric patterns deposited by localized atmospheric pressure plasma enhanced chemical vapor deposition

 M. Haacké, A. Boileau, T. Gries, C. Noël and T. Belmonte
- P4-05 Atmospheric pressure etching of silicon surface with fluorine-containing cold plasma jets
 - M.D. Ionita, E.R. Ionita, G. Dinescu
- P4-06 Deposition of plasma-polymerized hexamethyldisilazane films onto polypropylene track-etched membrane

 L.I. Kravets, S.N. Dmitriev, V. Satulu, B. Mitu, G. Dinescu
- P4-07 Evaluation of 3D Thin Film Profile in Magnetron Sputtering Deposition **B. Mitu**, R. Coca, G. Dinescu
- P4-08 Dielectric properties of PTFE-like thin films obtained by magnetron sputtering
 - V. Satulu, V. Ion, B. Mitu, G. Dinescu
- P4-09 Design, deposition and characterization of PVD optical coatings: a systematic experimental approach
 - I. Pana, C. Vitelaru, N.C. Zoita, A. Kiss, M. Braic
- P4-10 HiPIMS and Reactive Magnetron Sputtering Techniques Used for Obtaining Fusion Related Materials
 - **C. Porosnicu**, V. Tiron, P. Dinca, B. Butoi, I. Burducea, O.G. Pompilian, I. Jepu, C. P. Lungu
- P4-11 Cleaning of carbon layers from surfaces by low pressure radiofrequency plasma
 - C. Stancu, S.D. Stoica, V. Satulu, V. Ion, G. Dinescu
- P4-12 Cleaning of oleic acid contaminant from glass surface by low-pressure discharge plasma
 - F. Samoilă, L. Sirghi

Topic 5: Biological and medical applications of plasmas, plasmas in liquids

- P5-01 Degradation of 2,4-D in water by pulsed corona discharge **M. Magureanu**, C. Bradu, D. Dobrin, V.I. Parvulescu
- P5-02 Stimulation of seed germination by non-thermal plasma **M. Magureanu**, D. Dobrin, M. Gidea

- P5-03 Plasma spraying on polymers: a study on bioactive and antibacterial coatings
 - L. Barillas, J.M. Cubero-Sesin, I. Vargas
- P5-04 The effect of a cold atmospheric filamentary plasma jet on stored products pest and wheat germination **L.G. Carpen**, C. Chireceanu, M. Teodorescu, A. Chiriloaie, A. Teodoru,
 - G. Dinescu
- P5-05 TVA Obtained Cu/Ag Layers Having Antimicrobial Properties Used in Smart Ventilation Systems
 - **B. Butoi**, C. Porosnicu, P. Dinca, I. Jepu, O.G. Pompilian, C. P. Lungu, M Diaconu, G. Soreanu, I. Cretescu
- P5-06 Laser Processing Of Hybrid Biomimetic Coatings
 M. Icriverzi, V. Dinca, L. Rusen, S. Brajnicov, V. Marascu, A. Bonciu,
 A. Cimpean, M. Dinescu, A. Roseanu

Poster session II, Topics 3, 6, 7 and 8 – Monday, June 19th, 16:50 – 18:25

Topic 3: Plasma sources and reactors at low and atmospheric pressure, dusty plasma

- P3-01 RF atmospheric pressure plasma jet: a method for synthesis of metallic particles
 - A. Lazea-Stoyanova, V. Marascu, C. Stancu, G. Dinescu
- P3-02 Light sources based on gas discharges for photodynamic therapy **P. Chiru**, P. Dinca, B. Butoi, O. G. Pompilian, I. Jepu, C. Porosnicu, C.P. Lungu
- P3-03 Novel electromagnetic space propulsion with radio frequency (RF) plasma generation and heating- investigation of plasma detachment through magnetic nozzle
 - **A.-M.T. Andreescu**, M. Teodorescu, G. Dinescu, D. Ifrim, I.F. Popa, R. Mihalache
- P3-04 High voltage pulses circuit for generating a plasma plume at atmospheric pressure
 - O. S. Stoican
- P3-05 Experimental set-up for the interaction of electron beams with complex plasmas
 - D. Ticos, C.M. Ticos, G. Dinescu
- P3-06 Wake-induced oscillations and rotational motion of cylindrical dust particles trapped in the sheath of low density plasma

 N. Udrea, C.M. Ticos

Topic 6: Application of plasmas in nanoscience and nanotechnology

- P6-01 Nanomaterials processing by plasma in liquids
 - **S. Vizireanu**, M.D. Ionita, E. R. Ionita, S.D. Stoica, L. Carpen, M. Teodorescu, I. Ion, D. Panaitescu, G. Dinescu
- P6-02 Interface characteristics of W/Si multilayers prepared by TVA **A. Anghel**, M. Badulescu, M. Vlaicu, C. Logofatu, C. Surdu-Bob

- P6-03 Tailoring sQ2/sQ3 ratio in Diamond -Like Carbon films via deposition parameters in a high voltage anodic vacuum plasma
 - M. Badulescu, A. Anghel, C.C. Surdu-Bob, C. Logofatu, C. Luculescu
- P6-04 Titanium 2D nanopatterns obtained by magnetron sputtering deposition with colloidal masks
 - A. Demeter, L. Sirghi
- P6-05 TiO2 thin films deposited by rf-magnetron sputtering for optoelectronic applications
 - D. Dogaru, C. Besleaga, A.C. Galca, M. Nistor, L. Ion
- P6-06 The influence of nitrogen doping upon the phase change characteristics of GeSb2Te4

 M. Osiac
- P6-07 InGaZnO thin films grown by pulsed electron beam deposition for electronic applications
 - F. Gherendi, N.B. Mandache, M. Nistor
- P6-08 Deposition of fluorinated polymer films onto track-etched membrane surface by plasma chemical methods
 - L.I. Kravets, A.B. Gilman, M.Yu. Yablokov, V. Satulu, B. Mitu, G. Dinescu

Topic 7: Fusion plasma physics and technology

- P7-01 ITG driven turbulence: test modes approach
 - V. Baran, M. Vlad, F. Spineanu
- P7-02 The helical stable structures occuring at q=1 surface in tokamak **F. Spineanu**, M. Vlad, V. Baran
- P7-03 High power laser interaction with fusion technology materials C.P. Lungu, C. Porosnicu, P. Dinca, B. Butoi, O.G. Pompilian, I. Jepu, L. Avotina, A. Marcu
- P7-04 Characteristics of tungsten particles obtained at atmospheric pressure by a plasma jet
 - V. Mărăscu, A. Lazea-Stoyanova, C. Stancu, S.D. Stoica, B. Mitu, G. Dinescu
- P7-05 Tungsten as a plasma-facing materials in fusion devices: impact of helium high-temperature irradiation on hydrogen retention
 - **E. Bernard**, R. Sakamoto, A. Kreter, N. Yoshida, F. Ghiorghiu, R. Bisson, T. Angot, M.F. Barthe, M. Thompson, C. Corr, C. Grisolia
- P7-06 Modification of tungsten surfaces by He and He/H_2 hollow cathode discharges
 - C. Stancu, E.R. Ionita, M. Teodorescu, S.D. Stoica, V. Marascu, G. Dinescu, S. Peillon, F. Gensdarmes, C. Grisolia
- P7-07 Ion energy distribution function measurements during high power impulse magnetron sputtering of W and Al targets in Ar-He and Ar-D2 gas mixtures V. Tiron, **C. Costin**, I. Mihaila, G. Popa
- P7-08 The influence of nitrogen gas inclusions on deuterium retention and release properties of Be-W mixed layers
 - **P. Dinca**, C. Porosnicu, V. Tiron, B. Butoi, I. Jepu, O.G. Pompilian, I. Burducea, C.P. Lungu
- P7-09 Nano-porous coatings for gas retention studies
 - **C. Ruset**, E. Grigore, M. Rasinski, E. Fortuna, J. Grzonka, M. Gherendi, C. Luculescu, N.P. Barradas, E.J. da Costa Alves, A. Hakola
- P7-10 Investigation of the He content within W coatings by using GDOES **E. Grigore**, C. Ruset, M. Gherendi, M. Firdaouss, A. Weckmann

- P7-11 Thermophysical properties of W based plasma facing materials for fusion reactors
 - M. Galatanu, M. Enculescu, G. Ruiu, A. Galatanu
- P7-12 Cracks and nanodroplets produced on tungsten surface by dense plasma jets **A. Scurtu**, N. Udrea, C. Luculescu, M. Gălăţanu, A. Gălăţanu, D. Ticoş, C.M. Ticos
- P7-13 Lost alpha particle monitor for JET. A conceptual design S. Soare, V.L. Zoita, V. Braic, T. Craciunescu, D. Falie, V. Golonorod'ko, V. Kiptily, I. Lengar, R.C. Pereira, V. Yavorskij, I. Zychor, N. Balshaw, D. Croft, A. Cufar, M. Curuia, A. Fernandes, J. Figueiredo, Y. Krivchenkov, N. Lam, C. Marren, S. Mianowski, V. Riccardo, K. Schoepf, Z. Stancar, L. Swiderski, V. Thompson, and JET contributors (EUROfusion Consortium, JET, Culham Science Centre, Abingdon, OX14 3DB, UK)
- P7-14 JET plasma influence on the beryllium/nickel marker tiles
 O.G. Pompilian, I. Jepu, P. Dinca, B. Butoi, C. Porosnicu, A. Niculescu,
 C.P. Lungu

Topic 8: Laser plasmas and their applications

- P8-01 Plasma Diagnostics Interferometry for 10 PW Laser driven electron acceleration
 - S. Balascuta, G. Acbas
- P8-02 Polylactide-co-caprolactone based coatings deposited by Matrix Assisted Pulsed Laser Evaporation: an optimization study

 S. Brajnicov, P. Neacsu, V. Dinca, V. Marascu, A. Bonciu, A. Cimpean, M. Dinescu
- P8-03 Combinatorial deposition by PLD and investigation of W, Mg, C composite for plasma-facing materials (PFM)
 - L.N. Dumitrescu, V. Ion, A. Moldovan, D. Colceag, A Bonciu, M. Dinescu
- P8-04 Plasma treatment of layered double hydroxides thin films deposited by laser techniques
 - **A. Matei**, R. Birjega, D.D. Baciu, A. Vlad, A. Marinescu, M. D. Ionita, R. Zavoianu, M. Dinescu
- P8-05 Polymeric guiding system obtained by laser direct writing

 A. Matei, F. Jipa, B. Calin, M. Zamfirescu, M. Dinescu, B. Mitu, V. Marascu, J. Heitz, C. Plamadeala
- P8-06 Conceptual design of electron spectrometer for laser-plasma experiments **M.L. Mitu**, N. Iacob, C.M. Ticos
- P8-07 Mobilization of tungsten particles by ns laser pulses and imaging of plasma dynamics
 A. Bercea, A. Palla-Papavlu, F. Stokker-Cheregi, M. Dinescu, T. Acsente,

C. Grisolia, P. Delaporte, G. Dinescu

- P8-08 Effects of excimer laser parameters on carbon laser ablation plasma dynamics

 C. Ursu, P.-E. Nica
- P8-09 Modification of Layered Double Hydroxides (LDHs) thin films properties with organic anion chromophore by laser techniques
 I. Tirca, A. Vlad, M. Secu, R. Birjega, R. Zavoianu, V. Marascu, A. Marinescu, M. Dinescu

Contacts:

In case of need please call one of the following numbers:

004 0743147418 (Gheorghe Dinescu)

004 0742356965 (Daniel Stoica)

Note that the emergency number in Romania is 112. It is possible to call 112 even without a SIM card. In addition to Romanian, the calls are answered in English, French, Hungarian, German, Italian, Spanish and Russian, depending on the call centre.

Thursday		Fri	Friday		Sat	Saturday		Sunday	ay		Mor	Monday		Tuesday	ay
June 15th		June	16th		Jun	June 17th		June 18th	8th		June	June 19th	٦	June 20th	0th
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	09:60	10:20	J. Pulpytel	10:00	10:20	A.V. Omran	10 15			10:00	10:20	C. Grisolia	10:00 10:	10:20 C. /	C. Anastassiou
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	16:10									16:30	16.50	Coffee break			
	16:30	16:50	Coffee break								2				
	16:50	18:25	Poster session Topics 1, 2, 4 and 5							16:50	18:25	Poster session Topics 3, 6 and 7			
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Welcome reception/Re 19:00 21:00 gistration HANUL BERARII OR	0 C						19:00	23:00	Conference Dinner/ CARU CU BERE				Legend Invited Oral	_	
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