

CESPC

Time	Sunday 4th September	Monday 5th September	Tuesday 6th September	Wednesday 7th September
8:15		Opening ceremony		
8:30		I-1: Deanna Lacoste: Non-equilibrium plasmas for combustion systems	I-5: Gregor Primc: Inactivation of viruses in irrigation water by combining advanced oxidation techniques	I-9: Petr Lukeš: Chemistry Induced by Atmospheric Plasma in Aqueous Liquids
9:05		O-1: Tim Nitsche: Experimental insights in the development of an oxygen removal process for coke oven gas with non-thermal plasma	O-11: Zlata Klar Tučeková: Optimization of plasma-activated media generation for decontamination of thermally sensitive materials	O-22: Nikolo Skoro: Correlation between properties of plasmas treated liquids with characteristics of atmospheric pressure plasma devices
9:25		O-2: Callie Ndayirira: Plasma-catalytic ammonia synthesis: the effect of the metal composition on the performance of Co-based Al ₂ O ₃ -supported catalysts	O-12: Robin Mentheour: Synergic antibacterial effect of pulsed electric field and plasma activated water	O-23: Michael Schmidt: Non-thermal plasma for generation of antimicrobial aerosol
9:45		O-3: Claudia Verheyen: Microwave plasma for fertilizer and oxygen production in the Martian atmosphere	O-13: Josef Khun: Comparison of non-thermal plasma produced by cometary and point-to-ring discharges for portable devices usable in biomedical applications	O-24: Ana Salva Garcia: Forest material treatment by PAW
10:05		Coffee break		Coffee break
10:30		I-2: Ester Marotta: Plasma treatment of perfluoroalkyl substances in water	I-6: Annieme Bogaerts: Plasma-based CO ₂ conversion: Improving the performance by a post-plasma carbon bed	I-10: Bogdana Mitu: NPs formation and immobilization
11:05		O-4: Thomas Vazquez: Indoor air decontamination by cold atmospheric plasma and photocatalysis	O-14: Marley Becerra: Investigation of CO deactivation in a pulsed warm arc plasma by optical emission spectroscopy	O-25: Ionut Topala: Revision of 3.4 um band destruction rates under ion beam irradiation of hydrogenated amorphous carbon as interstellar dust analogues
11:25		O-5: Joanna Pawlat: Cold plasma treatment of selected types of foods	O-15: Richard Cimerman: Nonthermal plasma regeneration of deactivated catalysts after plasma-catalytic removal of toluene and naphthalene	O-26: Keratin Sgonina: Selective study of ion-substrate interactions using the VUV-photoionization chamber
11:45		O-6: Thalita Nishime: Influence of the reactor configuration on the treatment of rapeseed using a conical corona reactor	O-16: Igor Fedirchuk: Plasma-catalytic conversion of ethanol into hydrogen-rich gas using system with rotating gliding discharge and vortex flows	
12:05		Lunch		Lunch
13:30		I-3: Cristina Canal: Moving from 2D to 3D to evaluate plasma-conditioned liquids in cancer treatment	I-7: Tomáš Homola: Recent developments in applications of plasma to the manufacture of flexible solar cells	
14:05		O-7: Kristian Wende: Bionucleic acid oxidation by CAP-derived species – a general concept in biomedical plasma applications	O-17: Miran Mozetic: Hydrophilization of fluorinated polymers	
14:25		O-8: Francesco Tampieri: How biopolymers in solution affect the generation and stability of plasma-generated reactive species	O-18: Matteo Gherardi: Control strategies for aerosol-assisted atmospheric pressure plasma deposition of fluorinated silane thin films	
14:45		O-9: Stanislav Kyzek: The effects of non-thermal plasma treatment on the structural and functional parameters of human spermatozoa	O-19: Slavomir Šihelnik: Dry cleaning and activation of flexible glass using nonthermal plasma before PEDOT:PSS-coating	
15:00		Coffee break		Excursion
15:30		I-4: Štefan Matejíček: Diagnostics of Atmospheric plasma by Ion mobility spectrometry (IMS)	I-8: Holger Kersten: On the combination of conventional and non-conventional probe diagnostics for process plasmas	
16:05		O-10: Kostyantyn Korychenko: Optical and Electrical Investigation of Plasma Generated by High-Energy Self-Stabilized Spark Ignition System	O-20: Senne Van Alphen: Modelling study of CO ₂ conversion enhancement in microwave plasmas using a quenching nozzle	
16:25	Registration		O-21: Eduardo Morales: CH ₄ coupling in nanosecond pulsed plasma discharges: OD modelling to unravel the effect of pressure & temperature on product selectivity	
18:00		Dinner		Gala Dinner
18:30			Poster session	
19:00	Welcome cocktail			

CESPC-9 Topics
1. Fundamental problems
2. Modeling and diagnostics
3. New materials and nanomaterials
4. Energy technologies
5. Environmental protection
6. Bio and medical plasma technologies
7. Surface processes
8. Plasma in contact with liquids

COST

Time	Thursday 8th September	Friday 9th September	
8:20	Opening ceremony		
8:30	Intro 1: Food	Intro 4: Plants	
8:45	I-11: Tomislava Kukušić-Pavičić: The effects of direct plasma treatment and indirect (PAW) treatment on physicochemical and functional properties of food	I-17: Sara di Leonardo: Cold plasma effects on plants: challenges and future in its use	
9:15	I-12: Fernando Alba-Elias: Applications of atmospheric plasma in the food and medical industry	O-39: František Krma: Cold Plasmas Application on Onion Bulbs	
9:30	O-27: Filippo Capelli: Plasma decontamination of food packaging material	O-40: Rasa Zukiene: The evaluation of cold plasma effect on morphometric and biochemical parameters in <i>Silene spaldaukiana</i> by principal component analysis	
9:45	O-27: Filippo Capelli: Plasma decontamination of food packaging material	O-41: Karol Hensel: Effect of plasma activated water, its chemically equivalent solutions and arsenic stress on growth, development of selected seeds and plants	
10:00	O-28: Klaas De Baerdemaeker: Cold plasma for bacterial decontamination: impact of food matrix composition and relative humidity of the input gases	O-42: Sabirina Boshmet: Effects of plasma treated water on seed germination and growth of <i>Brassica napus</i> (Lupinus angustifolius L.) plants under abiotic stress	
10:15	Coffee break		
10:35	Intro 2: PAW	I-18: Miica Miutinovic: Molecular response to PAW in model plant species	
10:50	I-13: Chedy Tizaoui: Non-thermal plasma and advanced oxidation processes for micropollutants removal in water	O-43: Kazuoji Koga: Development of experimental system for plasma irradiation effects on plants using marichama polypropylene	
11:05	O-29: Ludmila Ochravová: Effect of plasma and plasma activated water on growth media used in hydroponics	O-44: Lutzara Marchbanks: Application of plasma and pulsed electric field for the treatment of microalgae	
11:20	O-30: Vladimir Scholtz: Comparison of the effect of plasma activated water and artificially prepared activated water	O-45: Eugen Hracliu: Preparing for large scale use of cold plasma discharges: Pitfalls and challenges	
11:35	O-31: Jan Osh: ColdPlasma: A plasma source capable of application-scale generation of plasma treated water for agriculture, aquaculture, and medicine	Closing ceremony	
11:50			
12:05	Lunch		
13:30	I-14: Rune Ingels: Do we need the Haber Bosch?		
14:00	O-32: Elise Verloessem: Experimental and computational study of nitrogen fixation mechanisms from (humid) air and nitrogen in pulsed plasmas		
14:15	O-33: Korca Kutasi: Role of metals on fixation of N ₂ in plasma-activated liquids		
14:30	O-34: Arjana Filipič: Inactivation of viruses in irrigation waters		
14:45	O-35: Raluca Alma Biag: On the use of plasma activated water (PAW) for agricultural purposes		
15:00	Coffee break		
15:20	Intro 3: Seeds		
15:35	I-15: Božana Šerá: Seed treatment with non-thermal plasma from the point of view of seed germination and early seedling growth		
16:05	I-16: Pankaj Attri: Impact of plasma electric field treated seeds on germination, morphology, gene expression, and biochemical responses		
16:35	O-36: Jonas August: From alysiobiosis to germination: effect of an air atmospheric cold plasma treatment on <i>Arabidopsis</i> seed dormancy		
16:50	O-37: Plamena Murlinova: Cold plasma treatment effect on the germination and seedlings growth of durum wheat genotypes		
17:05	O-38: Václav Mikalović: The persistence of effects of seed treatment with cold plasma, vacuum and electromagnetic field: 7 years observations on Norway spruce		
18:30	Dinner		
20:00	Poster session		

COST Topics
1. WG2 Seeds
2. WG3 Plants
3. WG4 Water
4. WG5 Food
5. Intro WG