Program of the 3rd Workshop on Plasma Applications for Smart and Sustainable Agriculture

Sunday, 14th May

16:30	**Registration**
18:30	**Welcome cocktail**
19:00	**Dinner break**

Monday, 15th May

8:30	**Registration**
8:50	**Opening of the workshop**
	Session Chairs: Nevena Puač, František Krčma
9:00	**Nikola Škoro (Serbia)**; Properties of plasma-treated liquids used in agricultural and water purification applications; **Invited**
9:30	**Mario Janda (Slovakia)**; Tuning plasma activated water composition generated by transient spark with electrospray; **Invited**
10:00	**Rasa Žukiene (Lithuania)**; Cold plasma-induced effects in Stevia rebaudiana Bertoni in different experimental models; **Invited**
10:30	**Coffee break**
	Session chair: Kinga Kutasi
11:00	**Dawid Zarzeczny (Poland)**; Influence of low-temperature plasma on the properties of beetroot seeds; **STSM**
11:15	**Ludmila Čechová (Czech Republic)**; Study of the different plasma sources for water and seed treatment; **STSM**
11:30	**Piotr Terebun (Poland)**; Impact of plasma activated water prepared by different systems on the selected soil properties; **STSM**
11:45	**Klaas De Baerdemaeker (Belgium)**; The decontamination of bioaerosols using an in-house rotating dielectric barrier discharge (RDBD) plasma source; **STSM**
12:00	**Lunch break**
	Session chair: Romolo Laurita
14:00	**Clemencia Chaves-López (Italy)**; Antifungal Efficacy of SDBD cold plasma on dried tomatoes and mechanisms of action; **Invited**
14:30	**James Walsh (UK)**; Perspectives on the in-line decontamination of food-processing surfaces using cold atmospheric pressure air plasma; **Invited**

15:00	**Fabio Palumbo (Italy)**; Plasma deposition as a possible innovative technology in plasma agriculture; **Invited**
15:30	**Coffee break**
	Session chair: Monica Magureanu
16:00	**Tom Field (UK)**; A method to control the energy of free electrons in atmospheric pressure plasma discharges; **STSM**
16:15	**Thomas Vazquez (Slovakia)**; Real scale treatment of indoor air by cold atmospheric plasma and photocatalysis; **Oral**
16:30	**Mia Ivanov (Croatia)**; Degradability improvement of the olive mill wastewater by high voltage electrical discharge plasma (HVED); **Oral**
16:45	**Domenico Aceto (Italy)**; The effect of PAW on the growth and gene activation of healthy and tomato-mottle-mosaic-virus inoculated tomato seedlings; **Oral**
17:00	**Olivera Jovanović (Serbia)**; Argon plasma pin-type jet for water treatment and biological applications; **Oral**
17:15–17:30	**Zdenko Machala (Slovakia)**; Future agriculture with green fertilizers produced by non-thermal plasma-activated water technology; **Oral**
18:30	**Dinner break**
20:00	**PlAgri networking and discussions / Poster session**

Tuesday, 16th May

	Session chair: Zdenko Machala
9:00	**Tomoyuki Murakami (Japan)**; Numerical simulation and chemical network analysis of plasma-treated water; **Invited**
9:30	**Anna Dzimitrowicz (Poland)**; Plasma-based technologies for the efficient and economic removal of pharmaceuticals from contaminated water; **Invited**
10:00	**Vit Jirašek (Czech Republic)**; Direct and imprinted chemical reactivity of plasma-treated solutions; **Invited**
10:30	**Coffee break**
	Session chair: Joanna Pawlat
11:00	**Živko Čurčić (Serbia)**; Plasma in agriculture from agronomist perspective; **Invited**
11:30	**Liutauras Marcinauskas (Lithuania)**; Extraction of valuable compounds from microalgae using plasma and pulsed electric field treatment; **Oral**
11:45	**Mark Zver (Slovenia)**; Low-pressure plasma irradiation for water disinfection; **Oral**
12:00	**Lunch break**
	Session chair: Tomislava Vukušić Pavičić

14:00	**Changtao Chen (Belgium)**; Degradation of micropollutants in secondary wastewater effluent using nonthermal plasma-based AOPs; **Oral**
14:15	**Paolo Ambrico (Italy)**; On the effectiveness of dielectric barrier discharge treatment against phytopathogenic fungi; **Oral**
14:30	**Palma Rosa Rotondo (Italy)**; Low-temperature plasma and plasma-activated water as alternative novel technologies for postharvest disease control; **Oral**
14:45	**Iokeswari Ramireddy (Ireland)**; Influence of cold plasma on agriculture applications of selected multi-species grass sward; **Oral**
15:00	**Cristina Muja (France)**; Low-pressure microwave air plasma for spices decontamination; **Oral**
15:15	**František Krčma (Czech Republic)**; The effect of plasma activated water long term application on physical chemical soil properties; **Oral**
15:30	**Coffee break**
	Session chairs: Nevena Puač/František Krčma
16:00	**Alexandra Lavrikova (Slovakia)**; Inactivation of Escherichia coli and Staphylococcus aureus by cold plasma for disinfection of surfaces in food industry; **Oral**
16:15	**Danyang Liu (Belgium)**; Impact of non-thermal plasma on lipid oxidation: identification of key reactive species; **Oral**
16:30–17:15	**WG2-WG5 meeting and discussion**
18:30	**Dinner break**

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