

# IWOPA3

## TECHNICAL PROGRAM

	March 1 <sup>st</sup> , 21 Monday	March 2 <sup>nd</sup> , 21 Tuesday	March 3 <sup>rd</sup> , 21 Wednesday
8:00-9:00			
9:00-9:30	<b>Opening</b> Till Backhaus (Minister f. Agriculture & Environment), Hannelore Weber (Rector University Greifswald), Klaus-Dieter Weltmann (Director INP)	<b>Vladislav Curn</b> - Can physical and biological treatments enhance the yield of crops? Pilot study on rapeseed	<b>Hiroshi Hashizume</b> - Plasma applications for agriculture from seeds to field
9:30-10:00	<b>Kazunori Koga</b> - Influences of plasma treatment of seeds on their molecular responses	<b>Toshiro Kaneko</b> - Plant pathogen control using direct spray of solution contacting plasma or plasma effluent gas	<b>Nevena Puac</b> - Changing the plant tissue morphology and physiology by plasma treatment
10:00-10:30	<b>Masafumi Ito</b> - Plasma enhanced biorefinery	<b>Vida Mildažienė</b> - Long-term observations as a tool for estimation of plant response to seed treatment with cold plasma and electromagnetic field	<b>Juergen F. Kolb</b> - Degradation of residual agrochemicals by non-thermal plasma
10:30-11:00	<b>Break</b>	<b>Break</b>	<b>Break</b>
11:00-11:30	<b>Eric Robert</b> - Plasma-treated substrates using atmospheric jet and multi-jets for agricultural purpose	<b>Henrike Brust</b> - Plasma-derived nitrogen-species: Fertilizers or signaling factors in plant growth and development?	<b>"Question &amp; Answer" Contributed talks</b> All speakers of the contributed talks will be in the online meeting room during this time and will be available for questions
11:30-12:00	<b>Alexander Fridman</b> - Physics and plasma chemistry of fresh produce washing and misting	<b>Stefan Reuter</b> - Scaling Plasma-Liquid Systems – Diagnostic Means to Meet the Needs	
12:00-13:00	<b>Break</b>	<b>Break</b>	<b>Break</b>
13:00-13:30	<b>Vittorio Colombo</b> - Plasma activated water as novel resistance inducer for plants in greenhouse and open field	<b>Gregory Fridman</b> - Scale-up of non-equilibrium pulsed discharge for sanitation of whole and cut fresh fruits and vegetables	<b>"Question &amp; Answer" Postersession</b> All poster authors are online at this time and available for 1:1 text and video chats
13:30-14:00	<b>"Question &amp; Answer" Postersession</b> All poster authors are online at this time and available for 1:1 text and video chats	<b>Uros Cvelbar</b> - On the plasma decontamination efficiency of naturally occurring toxins in agriculture	<b>Closing</b>
14:00-14:30		<b>"Question &amp; Answer" Contributed talks</b> All speakers of the contributed talks will be in the online meeting room during this time and will be available for questions	
14:30-15:00			

All contributed talks will be available as pre-recorded presentations that you can watch at any time during the conference. The presentations will be published on Sunday, February 28<sup>th</sup>, 2021 on the virtual venue.

### CONTRIBUTED TALKS

- Manon Soulier** - Investigation of the efficiency of a dual microwave-radiofrequency low-pressure air plasma source on fungal and mycotoxin proliferation control
- Erik Esveld** - Application of Plasma Activated Water on Mushrooms
- Jörg Ehlbeck** - Plasma functionalized water and air: from bench to prototype for fresh food safety
- Soukaina Barroug** - Controlling campylobacter spp and salmonella spp contamination in poultry processing using cold plasma
- Tatiana Vasilieva** - Applications of chitoooligosaccharides produced in beam-plasma reactors for plant growth stimulation
- Guus Pemen** - Plasma activated water for medical and agro applications
- Dana Ziuzina** - Cold plasma for microbiological and insect pest control in cereal grain production
- Plamena Marinova** - Microwave argon plasma torch for agriculture applications
- Katsuyuki Takahashi** - Radical production and treatment of nutrient solution using pulsed discharges contact with water surface
- Tuba Şen** - Effects of cold plasma treatment on seed germination and seedling growth of turkish tea
- Kenji Ishikawa** - Electron spin resonance study on germination dynamics of plasma-activated seeds of radish sprouts
- Kerstin Horn** - Atmospheric plasma technology with potential for treatment and processing of agricultural products
- Srinivasa R. Mentreddy** - Low Temperature Atmospheric Plasma Effects on Sprouting and Plant Growth of Turmeric (Curcuma spp.) Rhizomes in the Greenhouse and the Field