

27 Friday



- Registration

7:30 – 12:00

Session III „Soil Threats and Security"

[Session Chairs: Piotr Hulisz, Marcin Świtoniak]

- **Keynote Speaker: Peter Leinweber** (in-person) 8:30 – 8:55
University of Rostock, Germany
„Advances in soil phosphorus research: new insights from two nine- year
research programs in Germany”
- Q&A panel 8:55 – 9:00
- **Keynote Speaker: Remigio Paradelo Núñez** 9:00 – 9:25
University of Santiago de Compostela, Spain
„Urban soil health: Problematics and methodology for assessment”
- Q&A panel 9:25 – 9:30

SHORT PRESENTATION PANEL

- **Lecture 1 Agnieszka Klimkowicz-Pawlas** (in-person) 9:30 – 9:45
Institute of Soil Science and Plant Cultivation - State Research Institute,
Puławy, Poland
„A multifaceted approach to assessing agricultural areas under high
anthropopressure”
- **Lecture 2 Sylwia Pindral** (in-person) 9:45 – 10:00
Institute of Soil Science and Plant Cultivation - State Research Institute,
Puławy, Poland
“Soil threats in Poland and where to find them - a dynamic modeling
within agricultural soils”
- **Lecture 3 Andrzej Greinert** (in-person) 10:00 – 10:15
Institute of Environmental Engineering, University of Zielona Góra,
Poland
“Former cemeteries in the city as a challenge for urban development in
the context of soil functions”
- **Lecture 4 Silvia Schrey** (in-person) 10:15 – 10:30
Institute of Bio- and Geosciences / Plant Sciences (IBG-2),
Forschungszentrum Jülich GmbH, 52425 Jülich, Germany
“Exploring the role of polysaccharide root exudates and biochar in the
aggregation of coarse-and fine-textured arable soils”

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- **Lecture 5 Anna Markowicz (online)** 10:30 – 10:45
 Institute of Biology, Biotechnology and Environmental Protection, Faculty of
 Natural Sciences University of Silesia, Katowice, Poland
**“Nanoparticles and soil microbial communities - hope for the best, but prepare for
 the worst?”**
 - **Discussion** 10:45-11:00
 - **Poster Session** 11:00 – 11:30
 (3 min for the presentation and 2 min for the questions)
 - **Patrycja Tarnawska (in-person)**
 Nicolaus Copernicus University in Toruń, Faculty of Biological and Veterinary
 Sciences, Department of Environmental Microbiology and Biotechnology
„What does graveyard soil have to do with antibiotic resistance?”
 - **Mina Mahbod (on-line)**
 Department of Educational Sciences, Farhangian University, Tehran, Iran.
„Mental health has a relationship with soil salinization and land degradation”
 - **Patrycja Rowińska (online)**
 Łódź University of Technology
**„Screening of soil spore-forming bacteria to develop biopreparations for
 enhancing the decomposition of post-harvest residues”**
 - **Kinga Szafrńska (online)**
 Institute of Botany, Faculty of Biology, Jagiellonian University, Kraków, Poland
„Fire-induced ecological shifts: impact of biological soil crusts on soil recovery”
 - **Karolina Chowaniec (online)**
 Institute of Botany, Faculty of Biology, Jagiellonian University, Kraków, Poland
**„Dune blowouts as microbial hotspots - ecophysiology and threats of biological
 soil crust in initial stages of succession”**
- Discussion (15 minutes)
- COFFEE BREAK** 11:30 – 13:00

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Session IV „The Global Problem of Salinity – an Interdisciplinary Approach”

[Session Chairs: Katarzyna Hrynkiewicz, Kate Negacz]

- **Keynote Speaker: Kate Negacz (in-person)** 13:00 – 13:25
 Virje Universiteit Amsterdam, Netherlands
 „Addressing food security and sustainability through saline agriculture”
- Q&A panel 13:25 – 13:30
- **Keynote Speaker: Ian Dodd (online)** 13:30 – 13:55
 Lancaster Environment Centre, Lancaster University, UK
 „Roots to salinity tolerance: local and long-distance phytohormone signalling”
- Q&A panel 13:55 – 14:00

SHORT PRESENTATION PANEL

- **Lecture 1 Boris Lazarević (in-person)** 14:00 – 14:15
 University of Zagreb, Croatia
 “Image-based phenotyping for salinity tolerance in crops”
- **Lecture 2 Bliss Furtado (in-person)** 14:15 – 14:30
 Microbiology Department, Nicolaus Copernicus University in Toruń, Poland
 “Taking the endophytic route to cope with salinity stress in *Lolium perenne*”
- **Lecture 3 Ahmad Rajabi Dehnavi (in-person)** 14:30 – 14:45
 Department of Geobotany and Landscape Planning, Faculty of Biological and Veterinary Sciences, Nicolaus Copernicus University in Toruń
 “Understanding salinity stress responses in sorghum: exploring genotype variability and salt tolerance mechanisms”
- **Lecture 4 Dominika Thiem (in-person)** 14:45 – 15:00
 Microbiology Department, Nicolaus Copernicus University in Toruń, Poland
 “Rhizospheric and root endophytic fungal microbiota of *Alnus glutinosa* Gaertn. under exposure to salinity changes during growing season”
- Discussion (15 minutes)

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Poster Session
(3 min for the presentation and 2 min for questions)

15:00 – 16:00

- **Agnieszka Kalwasińska** (in-person)
Department of Environmental Microbiology and Biotechnology, Nicolaus Copernicus University in Toruń
“Genome mining in Halotolerant PGPR strain *Agrobacterium divergens* Azo12”
- **Sandra Lubińska-Mielińska** (in-person)
Department of Geobotany and Landscape Planning, Nicolaus Copernicus University
“Functional traits as a tool for conservation of the natural biodiversity of inland salt marsh vegetation”
- **Priyanka Chandra** (online)
ICAR–Central Soil Salinity Research Institute, Haryana, India
“Standardization of techniques for the large scale propagation of native Arbuscular mycorrhizal fungi (AMF) from salt affected soils”
- **Larissa Menezes** (online)
P.E.S.'s R.S.N College of Arts and Science, Farmagudi, Ponda, Goa
“Plant growth promoting bacteria from salt pan of Goa, India”
- **Nikki** (online)
Chaudhary Charan Singh Haryana Agricultural University, Hisar (Haryana) India
“Impact of Salinity Variations on Growth and Survival of Amur Carp (*Cyprinus carpio haematopterus*)”
- **Discussion**
- **Closing Ceremony and Awarding**

16:00 – 16:15