

## Program of Workshop

### Wednesday, September 27, 2023 Protection of soils in agricultural and urban systems

10.00-10.30 Opening of the Workshop + Introductory information on the Commission 3.5  
(A. Karczewska, C. Kabała (Director of the Institute), S. Norra)

10.30-11.30 **Session 1.** Chair: Stefan Norra

- R. Paradelo Núñez: Physical properties of the urban soils in Santiago de Compostela (Spain)
- E. Taskin: Living labs; useful tool to prevent loss of fertile lands?

11.30-12.00 Coffee break

12.00-13.00 **Session 2.** Chair: Remigio Paradelo Núñez

- M. Sut-Lohmann: Is fiber hemp a feasible plant to improve agricultural soil quality under water scarce conditions?
- A. Maina Zubairu: Overview of biochar role in ameliorating salt stress in crops (review)

13.00-14.30 Lunch

14.30-15.30 **Session 3.** Chair: Karolina Lewińska

- T. Degenhardt : Differentiation between the PFAS sources sewage and paper sludge that potentially contaminated soils in the Baden-Baden area (Germany)
- A. Karczewska: Introduction to discussion on the proposal of EU "Soil Directive" (.....)

15.30-16.15 **Poster session** (Chair: Anna Karczewska), simultaneously: coffee break

16.15-17.00 **Discussion** Chair: AK

- Topics: the posters, the Directive and the tasks for the Commission 3.5 (part 1)

17.00 -19.00 Guided walk and visiting Wrocław

19.00-22.00 Dinner (included in the fee)

### Thursday, September 28, 2023 Contaminated soils and industrial sites – assessment, remediation, reclamation

9.00-11.00 **Session 4.** Chair: Stefan Norra

- A. Karczewska: Comparison of various approaches and indices applied to assess soil contamination – selected case studies
- C. Kabała: Long-term soil monitoring around the largest plants of copper industry in SW Poland
- A. Tamma: Sustainable technology of phytoextraction of metals from soil supported with water-absorbing geocomposites
- Z. Gusiatin: Usability of a lignite-derivative in remediation systems for heavy metal-contaminated soils

11.00-11.30 Coffee break

11.30-13.00 **Session 5. Chair: Jose Navarro Pedreño**

- K. Lewińska: The effects of selected amendments on antimony and lead release from spiked soils
- S. Norra: Developing revitalization concepts for mine residue deposits in southern African countries
- P.N. Eze: Tailings and slags from a copper-nickel mine, central Botswana: geochemistry, mineralogy and appraisal of environmental pollution

13.00-14.30 Lunch

14.30-15.30 **Discussion Chair: Stefan Norra and AK**

- Proposals for the tasks and the forms of activity for the Commission 3.5 in years 2023-2026,
- Common publications, likely common projects???
- Comments to the proposal of Soil Directive

15.30-16.00 Coffee break

16.00-17.00 **Discussion** - continued, conclusions ...

..... free time, joint activities are not provided (but not excluded)

**Friday, September 29, 2023**

8.00-19.00 **Field trip**

Soil contamination with potentially toxic elements, as well as soil remediation in the area affected by copper industry. Environmental problems caused by tailings impoundments. Reclamation of tailings impoundments. Visit to the largest European tailings disposal facility Zelazny Most and to the zone surrounding the copper smelter Legnica

**Closing conclusions** ?? (in the field)