

International Conference "Soil Protection Strategy – Needs And Approaches For Policy Support" Preliminary Programme

Wednesday, 8 March: Arrival, accommodation, reception

19:00	Welcome drink – Sybilla Restaurant
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Thursday, 9 March

Time	Session	Activity
8:30 – 9:00	I S E S S I O N	Opening
9:00 - 9:20		Concerted action AROMIS -assessment and reduction of heavy metal input into agro-ecosystems Ursula Roth , KTBL e.V., Darmstadt, Germany
9:20 – 9:40		Road map to integrate comprehensive soil protection in national and international policies Satish Gupta , FAL Agroscope Reckenholz Zürich and ITOe –ETHZ Zürich, Switzerland
9:40 – 10:00		Diffuse soil pollution assessment and policy support covering expertise provided by the TWG contamination and the situation in Austria Sigbert Huber , Umweltbundesamt (Austrian Federal Environment Agency), Vienna, Austria
10:00 - 10:15		Discussion
10:15 - 10:30		Coffee break
10:30 - 10:50		Soil pollution and risk management in relation to soil protection strategy in Slovakia Jozef Kobza , Soil Science and Conservation Research Institute Regional Department, Banska Bystrica, Slovakia
10:50 - 11:10		Risk based management of contaminated land - from European theories to Flemish experiences Victor Dries , Public Waste Agency of Flanders, (OVAM), Mechelen, Belgium
11:10 – 11:30		An integrated approach for identification of large scale contaminated land in North Rhine - Westphalia, NW-Germany - experiences and implications for the European soil protection strategy regarding contamination and risk based land management Michael Kerth , Geo-Infometric GmbH, Detmold, Germany
11:30 - 11:50		Soil protection strategy and the European Commission agri-environmental policy: Their repercussions on the terraced landscapes Sabina Ansins – Velis , Centro De Investigaciones Sobre Desertificacion-CIDE (CSIC, Universitat de Valencia, Generalitat Valenciana), Valencia, Spain
11:50 – 12:10		Discussion
12:10 – 13:30		Lunch
13:30 – 14:00		Poster Session
14:00 – 14:20	II S E S S I O N	Towards sustainable soil protection strategy in Poland: national vs. EU legislations and recommendations Grzegorz Malina , Institute of Environmental Engineering, Czestochowa University of Technology, Czestochowa, Poland
14:20 – 14:40		Ecotoxicity testing for soil quality assessment - criteria and implications Barbara Maliszewska - Kordybach , Institute of Soil Science and Plant Cultivation – State Research Institute, Department of Soil Science Erosion and Land Protection, Puławy, Poland
14:40 – 15:00		Ecological methods in environmental effects assessment Maria Niklińska , Jagiellonian University, Institute of Environmental Sciences, Kraków, Poland
15:00 - 15:15		Discussion
15:15 – 15:30		Coffee Break
15:30 – 15:50		Linking HOC bioavailability with soil properties and biomimetic methods in predicting the fate of pollutants in remediation applications Clark Ehlers , University of Natural Resources and Applied Life Sciences (BOKU), Vienna, Department for Agrobiotechnology, Institute for Environmental Biotechnology (IFA), Tulln, Austria
15:50 – 16:10		Biogeochemical cycles and sustainability of biosphere Victor Dolin , Institute for Environmental Geochemistry, Kyev, Ukraine

16:10 – 16:30		Understanding the life cycle of soil: past and future civilization collapses K. Vala Ragnarsdottir , University of Bristol, Department of Earth Sciences, Bristol, The UK
16:30 – 16:45		Discussion
19:00		Gala Dinner

Friday, 10 March

9:00 - 9:20	III SESSION	Integration of multi-scale dynamic spatial models for land use change analysis and assessment of land degradation and socio-economic processes. Hedwig van Delden , RIKS Research Institute for Knowledge Systems, Maastricht, The Netherlands
9:20 - 9:40		Using system dynamic models for policy analysis land management and assessment of soil biogeochemical processes Hordur Haraldsson , Department of Chemical Engineering, Lund University
9:40 - 10:00		Land use change in polluted areas as a response to CAP instruments – food chain risk aspects Tomasz Stuczynski , Institute of Soil Science and Plant Cultivation – State Research Institute, Department of Soil Science Erosion and Land Protection, Puławy, Poland
10:00 - 10:20		Discussion
10:20 – 10:40		Coffee break
10:40 – 11:00		Reduction of impact of contaminants by land use Joop Harmsen , Wageningen University, ALTEERRA, The Netherlands
11:00 - 11:20		Priority setting in polluted land management in relation to land use and soil properties Jan Japenga , Alterra Green World Research, Soil Science Center, Soil Pollutants Research Group, Wageningen, The Netherlands
11:20 - 11:40		Organic matter status in soils of Poland - importance for protection of soil functions in the context of soil strategy Sławomir Gonet , Nicolaus Copernicus University, Toruń, Poland
11:40 - 12:00		Discussion
12:00 - 13:30		
13:30 – 14:00		Poster Session
14:00 – 14:20	IV SESSION	Impacts of soil redistribution on carbon distribution and biogeochemistry with agricultural landscapes: implications for carbon sequestration Gregory McCarty , USDA, Beltsville MS, USA
14:20 – 14:40		Soil, biowaste and compost: potential contribution to fight climate change Enzo Favoino , Scuola Agraria del Parco di Monza, Monza, Italy
14:40 – 15:00		Discussion
15:00 – 15:20		Coffee break
15:20 -15:40		Influence of biosolids application on soil quality Christos Tsadilas , National Agricultural Research Foundation – Institute of Soil Mapping and Classification, Larrisa, Greece
15:40 – 16:00		Sewage sludge use on soil: approaches and effects Paolo Mantovi , Research Centre on Animal Production (CPRA), Reggio Emilia, Italy
16:00 – 16:15		Discussion
16:15 – 16:30		Closing of the conference
19:00		Dinner

Saturday, 11 March

9:00 – 16:00	Study tour through Lublin region
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1. **USE OF NEW COMPLEX SORBENT FOR FERTILITY RISING OF THE CONTAMINATED SOILS**
V.S. Anisimov, A.N. Ratnikov , K.V. Petrov , D.G. Sviridenko, T.L. Zhigareva, D.V. Dikarev, L.N. Anisimova, V.N. Mazurov
2. **AERATION STATUS OF SOILS FLOODED BY THE VISTULA RIVER IN THE KEPA SOLECKA FLOODPLAIN**
Banach A.M., Banach K., Visser E.J.W., Lamers L.P.M., Bennicelli R.P., Stępniewska Z.
3. **AGROECOLOGICAL EVALIATION OF MEANS OF BIOLOGICAL AND CHEMICAL CONTROL OF ROOT ROTS OF SPRING BARLEY**
Nataliya Baranovska
4. **DYNAMICS OF ORGANIC CARBON CONTENT IN BLACK EARTHS OF TARNOBRZESKA PLAIN**
Piotr Bartmiński, Zbigniew Klimowicz
5. **PREPARATION OF INORGANIC SUPPORTS FOR LIQUID WASTE TREATMENT**
Aissa Belouatek, Ahmed Addou
6. **THE PROTECTION OF FOREST SOILS DURING FOREST OPERATIONS**
Staffan Berg
7. **STAR PLOTS TO DISPLAY AND SIMPLIFY EVALUATION OF SOIL MICROBIAL PROPERTIES FOR MONITORING PROJECTS**
Černohlávková Jitka, Bezchlebová Jitka, Hofman Jakub, and Holoubek Ivan
8. **SOILETOX - EFFECTS OF PRIORITY PERSISTENT ORGANIC POLLUTANTS (POPS) ON SOIL ORGANISMS**
Hofman Jakub, Bezchlebová Jitka, Sochová Ivana, Černohlávková Jitka, Kobetičová Klára, Lána Jan, and Holoubek Ivan
9. **SUMMARY OF AVAILABLE KNOWLEDGE ON POPS TOXICITY IN EARTHWORM ECOTOXICOLOGY**
Bezchlebová Jitka, Hofman Jakub, and Holoubek Ivan
10. **STUDY OF HEAVY METALS TRANSPORT IN MODEL ALBELUVISOLS**
Motuzas, V. Butkus, R. Vaisvalavičius
11. **POSSIBILITIES OF NEAR INFRARED SPECTROSCOPY APPLICATION IN LANDSCAPE-SCALED SOIL MONITORING PROGRAMS**
Marcin Chodak, Maria Niklińska
12. **THE ROLE OF MICROORGANISMS IN BIOLOGICAL DIAGNOSTIC OF SOIL OF THE DIFFERENT AGROECOSYSTEMS**
O.S. Demyanyuk
13. **THE TOXICITY ANALYSES OF SOIL AND SEDIMENTS AS A FIRST STEP DURING REMEDIATION OF DEGRADED RIVERS VALLEY – A CASE STUDY ON THE PILICA, BZURA, NER AND UTRATA RIVERS**
Drobniewska Agata , Sumorok Beata , Nałęcz-Jawecki Grzegorz , Jawicki Józef

- 14. FOOTPRINT, AN EU PROJECT FOR PESTICIDE RISK ASSESSMENT AND MANAGEMENT**
Wiesław Fialkiewicz, Igor Dubus, Giovanna Azimonti, Martin Bach, Enrique Barriuso, Giovanni Bidoglio, Faycal Bouraoui, Hayley Fowler, Olivier François, Anker Højberg, John Hollis, Nick Jarvis, Ireneusz Kajewski, Jeanne Kjær, Kathy Lewis, Franc Lobnik, Polykarpos Lolos, Benoît Réal, Stefan Reichenberger, Fredrik Stenemo, Metka Suhadolc, Nicolas Surdyk & Evangelia Vavoulidou–Theodorou
- 15. ASSESSMENT AND PREDICTION OF THE SOIL PHYSICAL QUALITY FOR POLISH ARABLE LAYERS**
Olga P. Gate, Ewa A. Czyż, Anthony R. Dexter
- 16. THE EFFECT OF DE-ICING ROADS ON NEIGHBOURING SOIL ENVIRONMENT AND VEGETATION**
Wrochna M., Gawrońska H., Gawroński S.W.
- 17. CHANGES IN MOLECULAR PARAMETERS OF STABLE HUMIC ACIDS DUE TO EROSION PROCESS**
Elżbieta Giegużyńska, Mariola Sienkiewicz
- 18. QUALITY OF GREY FOREST SOILS OF HEMEROBIC ECOSYSTEMS OF UKRAINE AND ITS INDICATION (THE BIOGEOCENOLOGIC APPROACH)**
Zenon Hamkalo
- 19. USE OF TWO DIFFERENT LEACHING TEST METHODS IN ENVIRONMENTAL RISK ASSESSMENT**
Natalya Irha, Uuve Kirso, Gary Urb, Janek Reinik, and Margit Laja
- 20. ASSESSMENT OF THE PHYTOTOXICITY OF SOIL ZINC EXTRACTED WITH 1 MOL HCL·DCM⁻³**
Jolanta Korzeniowska, Ewa Stanisławska-Glubiak
- 21. LAND-USE CHANGES IN SILESIA REGION IN RELATION TO KEY SUSTAINABILITY ISSUES USING CLUSTER ANALYSIS**
Renata Korzeniowska-Puculek, Grzegorz Siebielec, Tomasz Stuczyński, Rafał Pudełko, Piotr Koza, Monika Kowalik
- 22. ANALYSIS OF POST-INDUSTRIAL AREAS DENSITY IN EU COUNTRIES AT NUTS-X LEVEL**
Monika Kowalik, Renata Korzeniowska-Puculek, Grzegorz Siebielec, Tomasz Stuczyński, Piotr Koza, Rafał Pudełko
- 23. USING SELECTIVE GENERALIZATION FOR IMPROVING LAND-USE CHANGE ANALYSIS OF SILESIA**
Piotr Koza, Rafał Pudełko, Grzegorz Siebielec, Tomasz Stuczyński, Renata Korzeniowska-Puculek
- 24. WARYNSKI MEGASITE IN POLAND - POSSIBILITIES OF REVITALIZATION AND SOIL REHABILITATION**
R., Kucharski, A.Sas-Nowosielska, J., Krzyżak., A.Czerwińska
- 25. VETERINARY REQUIREMENTS FOR ORGANIC FERTILIZERS DERIVED FROM ANIMAL BY-PRODUCTS**
K. Kwiatek, A. Hoszowski, M. Koza¹, R. Zasadny

26. **INFLUENCE OF PHENANTHRENE ON NITRIFYING BACTERIA ACTIVITY IN SOILS FROM INDUSTRIAL AND AGRICULTURAL AREAS**
Agnieszka Klimkowicz-Pawlas, Barbara Maliszewska-Kordybach, Dalia Janusauskaite
27. **EFFECTS OF 15 YEARS SLUDGE APPLICATION ON CROPLAND**
P. Mantovi, G. Baldoni, L. Dal Re and S. Piccinini
28. **ECOLOGICAL RESTORATION OF LIGHT TEXTURED AGRICULTURAL SOILS IN SOUTH EAST LITHUANIAN**
Saulius Marcinkonis
29. **USING NON-METRIC AIR PHOTOS FOR MAKING LAND-USE MAP OF THE „WIEPRZ - KRZNA CANAL” REGION**
K. Mizak, R. Pudełko, J. Kozyra
30. **MICROBIAL ACTIVITIES AND HEAVY METAL AVAILABILITY IN LONG-TERM CONTAMINATED SOILS**
G. Mühlbachová
31. **EFFECT OF SOIL ORGANIC MATTER CONTENT ON SOIL PHYSICAL QUALITY AND IMPLICATION FOR ENVIRONMENTAL PROTECTION**
Jacek Niedźwiecki, Ewa A. Czyż, Anthony R. Dexter, Agnieszka Reszkowska
32. **ANTHROPOGENIC AND NATURAL SOILS QUALITY IN AN AGROSYSTEM OF SICILY (ITALY)**
Vanessa Palermo
33. **MIGRATION AND TRANSLOCATION OF HEAVY METALS IN SOILS DIFFERENT BUFFERING CAPACITY**
Yaroslava Pashchenko
34. **USING OF AGROCHEMICAL PARAMETERS FOR THE ESTIMATION OF AN ECOLOGICAL CONDITION OF SOILS AND THEIR STABILITY TO ANTHROPOGENIOUS INFLUENCES**
E.G. Pivovarova, L.M. Burlakova
35. **METHODOLOGICAL APPROACH TO STUDY OF THE SOILS QUALITY**
V.V.Medvedev, I.V.Plisko
36. **EFFECT OF LONG-TERM EROSION ON LOESS SOIL AND ITS FUNCTIONS**
Jerzy Rejman
37. **SOIL ENVIRONMENTAL RISK ASSESSMENT IN URBAN AREAS**
S. Rodrigues, A. Cachada, M^a E. Pereira, A. Duarte
38. **INTEGRATED LANDSCAPE PROTECTION IN LOUCKA RIVER WATERSHED**
Aleksandra Sala
39. **INFLUENCE OF THE ECONOMIC ACTIVITIES ON VERTICAL MIGRATION OF ¹³⁷CS**
Igar P. Samsonenka

40. **PROPOSAL FOR THE SYSTEM OF LIMIT VALUES AS A TOOL FOR SOIL POLLUTION ASSESSMENT**
M. Sáňka, J Němeček, E. Podlešáková, S. Beneš, R. Vácha, I. Hauptman
41. **SOIL CLEANING - TECHNICAL VS. BIOLOGICAL METHODS**
Aleksandra Sas-Nowosielska
42. **SOIL POLLUTION AND PHYTOREMEDIATION. EXAMPLE OF URANIUM AND THORIUM SOIL/PLANT TRANSFER**
Shtangeeva, X. Lin, A. Tuerler
43. **SELECTION OF PLANT SPECIES FOR PHYTOTOXICITY TESTS WITH PAHS**
Bożena Smreczak, Agnieszka Klimkowicz-Pawlas, Barbara Maliszewska-Kordybach
44. **ACRIDINE AND HCB TOXICITY TO NEMATODES
CAENORHABDITIS ELEGANS AND *ACOBOLOIDES NANUS* IN THREE TEST MEDIA**
Sochová Ivana, Hofman Jakub and Holoubek Ivan
45. **PREDICTION OF ¹³⁷CS DISTRIBUTION IN COMPONENTS OF MEADOW ECOSYSTEM WITHIN THE SEMIPALATINSK TEST SITE**
Spiridonov S.I., Gontarenko I.A., Mukusheva M.K. and Baranov S.A.
46. **BIOASSAY TEST AND "PASSIVE APPROACH" IN THE EVALUATION OF BIOAVAILABILITY OF HEAVY METALS IN CONTAMINATED SOIL**
Gianniantonio Petruzzelli, Francesca Pedron and Eliana Tassi
47. **INFLUENCE OF HERBICIDES AND PLANT GROWTH REGULATOR ON ACCUMULATION ¹³⁷Cs AND ⁹⁰Sr BY CROP**
Liliya N. Ulyanenko, Stanislav V. Krouglov & Alexander S. Filipas
48. **GREEN LAND CONSUMPTION VERSUS BROWNFIELDS IN THE CITIES**
Jan Votoček
49. **ALTERNATIVES FOR BROWNFIELDS' REUSE**
Jan Votoček
50. **THE CONTENT OF HEAVY METALS IN SOILS OF DIFFERENT ECOSYSTEMS**
S.Volokitina M. Volokitin
51. **ABSTRACT FOR POSTER PRESENTATION**
Anna Wallstedt, Karin von Arnold
52. **THE DIGITAL MAP OF POTENTIAL WATER EROSION RISK IN POLAND. A QUALITATIVE, MIDDLE SCALE APPROACH.**
Rafał Wawer, Jerzy Kozyra, Krystyna Budzyńska
53. **A DECISION SUPPORT SYSTEM FOR PRECISE EROSION CONTROL PLANNING**
Rafał Wawer

**54. GIS IN SUPPORTING DECISIONS ON EROSION CONTROL MANAGEMENT
OF RURAL ROADS' NETWORK.**

Eugeniusz Nowocień, Rafał Wawer, Tomasz Stuczyński