Programme Overview

For 3.5 days, the conference will be a forum to discuss cutting-edge research on heavy metals in the environment. The formal conference activities will start on Monday, September 12 and end on Thursday, September 15 at noon. Top-experts in their field will provide a general view on selected topics in plenary keynote lectures. In up to 4 parallel sessions, specific topics will be discussed based on the oral contributions of participants. Poster sessions will provide ample opportunity to come in direct contact with other researchers, discuss ideas and explore collaboration.

Sunday, 11 September	17:00 - 18:00 Registration 18:00 - 20:00 Welcome Reception
Monday, 12 September	08:00 - 08:45 Registration 08:45 - 09:40 Opening Ceremony 09:40 - 12:10 Plenary Lectures 12:10 - 13:40 Lunch and Poster Sessions 13:40 - 17:10 Parallel Sessions 18:30 - 20:00 Social activity
Tuesday, 13 September	08:30 - 09:10 Plenary Lecture 09:10 - 12:00 Parallel Sessions 12:00 - 13:30 Lunch and Poster session 13:30 - 14:10 Plenary Lecture 14:10 - 17:20 Parallel Sessions 17:00 - 18:15 Interactive Poster Session
Wednesday, 14 September	08:30 - 12:00 Parallel Sessions 12:00 - 13:30 Lunch and Poster Session 13:30 - 14:10 Plenary Lecture 14:10 - 17:20 Parallel Sessions 19:30 - 23:00 Conference Dinner
Thursday, 15 September	08:50 - 10:30 Parallel Sessions 11:00 - 11:30 Plenary Lecture 11:30 - 12:00 Closing Session 12:00 - 13:30 Lunch

Monday, 12 September 2016

Day Schedule

08:00 - 08:45 Registration

Opening Session

Chair: Filip M. G. Tack (Universiteit Gent, Belgium)

Room: Oehoe

08:45 - 08:50	Welcome by the Conference Chair Filip Tack
08:50 - 09:00	Welcome by the Dean of the Faculty of Bioscience Engineering Marc Van Meiryenne
09:00 - 09:10	Welcome by the Rector of Ghent University Anne De Paepe
09:10 - 09:20	Welcome by the First Executive Councillor of the City of Ghent Matthias De Clerca
09:20 - 09:30	Welcome by the Flemish Minister of Environment, Nature and Agriculture
09:30 - 09:40	Joke Schauvliege Welcome by the ICHMET Conference Organizing Committee Jerome Nriagu

Plenary Lecture

Chair: Filip M. G. Tack (Universiteit Gent, Belgium)

Room: Oehoe

09:40 - 10:20 Fate of Technology-Critical Elements in the Environment, With a Focus on Less-Studied Ones

Montserrat Filella (Université de Genève, Switzerland)

10:20 - 10:30 Conference Picture

10:30 - 10:50 Refreshment Break and Poster Session

Plenary Lecture

Chair: Filip M. G. Tack (Universiteit Gent, Belgium)

Room: Oehoe

10:50 - 11:30 Developmental Effects of Metal Neurotoxicity

Philip Grandjean (University of Southern Denmark, Denmark)

11:30 - 12:10 Emerging Evidence for Methylation of Mercury in Diverse Environments
Elsie Sunderland (Harvard T.H. Chan School of Public Health, United States)

12:10 - 13:40 Lunch and Poster Session

13:40 - 15:00 13:40 - 15:00 13:40 - 15:00	Track 1: S01 - Contamination in the Urban Environment Track 2: S02 - Remediation of Heavy Metal Contamination in Soil, Water and Air Track 3: S03 - Bioavailability: 21st Century Nexus between Site Characterization, Risk Assessment, and Remediation
13:40 - 15:00	Track 4: S04 - Heavy Metals in Terrestrial Ecosystems
15:00 - 15:30	Refreshment Break and Poster Session
	Parallel Sessions
15:30 - 16:50	Track 1: S01 - Contamination in the Urban Environment
15:30 - 17:10	Track 2: S05 - Heavy Metals in Sediments: Biogeochemistry and Remediation
15:30 - 17:10	Track 3: S03 - Bioavailability: 21st Century Nexus between Site Characterization, Risk Assessment, and Remediation
15:30 - 16:50	Track 4: S04 - Heavy Metals in Terrestrial Ecosystems
	Social Activity
18:00 - 20:00	Exploring the City of Ghent: Boat Tour and Walk

Monday, 12 September 2016

Parallel Sessions

Parallel session 1

S01 - Contamination in the Urban Environment

Chair: Gijs Du Laing (Universiteit Gent, Belgium)

Gerald Zagury (Polytechnique Montréal, Canada)

	Room: E1.012
13:40 - 14:00	Impact on the Environment from Steel Bridge Paint Deterioration Using Lead Isotopic Tracing, Paint Compositons and Soil Deconstruction
14:00 - 14:20	Brian Gulson (Macquarie University, Australia) The Influences of Rainwater and Surfactants on the Desorption Processes of Heavy Metals from Road- Deposited and Sewer Sediments Jin Zhang (Technische Universität Dresden, Germany)
14:20 - 14:40	Temporal Dynamics of Urbanization-Driven Environmental Changes Explored by Metal Contamination in Surface Sediments in a Restoring Urban Wetland Park
14:40 - 15:00	Shen Yu (Institute of Urban Environment, Chinese Academy of Sciences, China) Sequestration of Traffic Related Heavy Metals in the Leaves of Roadside Plants in a Megacity Shidharth Sankar Ram (Institute of Physics, India)
15:00 - 15:30	Refreshment Break and Poster Session
15:30 - 15:50	Plant-Fungi Association: Track to Dig for Sustainable Agriculture; Beware of Metal Pollutions in Urban Areas Antoine Pierart (EcoLab (UPS - CNRS - ENSAT), France)
15:50 - 16:10	Heavy Metals in Site-Specific Urban Runoff in Beijing, China: Occurrence and Partitioning Md Tariqul Islam Shajib (University of Copenhagen, Denmark)
16:10 - 16:30	Lead in the Urban Environment: Case Study of Yerevan, Armenia Gevorg Tepanosyan (Center for Ecological-Noosphere Studies, Armenia)
16:30 - 16:50	Physico-Chemical Characterization of Manganese-Bearing Particles in an Urban Area Located Close to a Manganese Alloy Production Plant Ana Hernández Pellón (University of Cantabria, Spain)

Parallel session 2

S02 - Remediation of Heavy Metal Contamination in Soil, Water and Air

Nanthi Bolan (The University of Newcastle, Australia) Dan Tsang (The Hong Kong Polytechnic University, Hong Kong)

Room: E1.015

13:40 - 14:00 Nanoscale Zero-Valent Iron for Metal Sequestration from Fracturing Flowback Water and Wastewater Daniel Tsang (Hong Kong Polytechnic University, Hong Kong) 14:00 - 14:20 **Prospective Remediation of Antimony Mine Area** Vladimir Matichenkov (Institute of Basic Biological Problems Russian Academy of Sciences, Russian Federation)

14:20 - 14:40	The Calcareous Deposit Formed Under Cathodic Polarization of a Galvanised Steel Electrode as Metals Remediation Device of Seawater Peggy Gunkel Grillon (University of New Caledonia, New Caledonia)
14:40 - 15:00	An Innovatice Approach to Bioremediation of Mercury Contaminated Soils Damien McCarthy (Macquarie University, Australia)
15:00 - 15:30	Refreshment Break and Poster Session
	S05 - Heavy Metals in Sediments: Biogeochemistry and Remediation
	Chair: Anna Knox (Savannah River National Laboratory, United States) Jörg Rinklebe (Bergische Universität Wuppertal, Germany) Room: E1.015
15:30 - 15:50	Ecological Risk Assessment of Trace Metal in the Sediments of Hooghly-Matla Estuarine System Punarbasu Chaudhuri (University of Calcuta, India)
15:50 - 16:10	Geochemical Fractionation and Risk Assessment of Heavy Metals in Superficial Sediments of Anzali Wetland, Iran Samar Mortazavi (Malayer University, Iran)
16:10 - 16:30	Determination of Metal Concentrations in Surface and Trapped Sediment of the Golden Horn Estuary, Istanbul Önder Kılıç (Istanbul University, Turkey)
16:30 - 16:50	Acidification and Mechanical Disturbance Induced Metal and Metaloid Release at the Sediment Water Interface Lars Duester (Federal Institute of Hydrology, Germany)
16:50 - 17:10	Release of Buried Heavy Metals from Different Depths in Contaminated Sediments by Bioturbation/Bioirrigation

S03 - Bioavailability: 21st Century Nexus between Site Characterization, Risk Assessment, and Remediation

Bin Men (Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, China)

	Chair: Nicholas Basta (Ohio State University, United States)
	Lena Ma (Nanjing University, China)
	Room: E2.009
13:40 - 14:00	Predicting Arsenic Bioavailability in Contaminated Soils by Using in Vitro Gastrointestinal
	Bioaccessibility for Site-Specific Risk Assessment
	Nicholas Basta (Ohio State University, United States)
14:00 - 14:20	Deriving Metal Bioavailability Parameters for EU Environmental Compliance Assessment
	Christopher Cooper (International Zinc Association, Belgium)
14:20 - 14:40	The Link Between Soil Geochemistry in South-West England and Human Exposure to Soil Lead
	Joanna Wragg (British Geological Survey, United Kingdom)
14:40 - 15:00	Arsenic, Lead, and Cadmium Bioavailability in Contaminated Soils: Comparison of in Vivo Animal
	Models and Prediction Using in Vitro Bioaccessibility Assays
	Lena Ma (Nanjing University, China)
15:00 - 15:30	Refreshment Break and Poster Session
15:30 - 15:50	Comprehensive Evaluation of in Vitro Bioaccessibility Methods to Predict Bioavailability of Arsenic in Contaminated Soils
	Brooke N. Stevens (Ohio State University, United States)

15:50 - 16:10	Independent Measures for More Confident Selection and Application of Arsenic Bioaccessibility Methods to Predict Bioavailability Shane Whitacre (Ohio State University, United States)
16:10 - 16:30	In Vitro Assessment of Arsenic Bioaccessibility and Intestinal Transport, Including Gut Microbiota Contribution
	Marta Calatayud (Ghent University, Belgium)
16:30 - 16:50	Speciation and Bioavailability of Lead in Complementary Medicines
	Shiv Bolan (University of Newcastle, Australia)
16:50 - 17:10	Real Metals for the Real World: Mixture Bioavailability & Toxicity in Soils
	Steven Siciliano (University of Saskatchewan, Canada)

S04 - Heavy Metals in Terrestrial Ecosystems

Competitive Sorption of Heavy Metals: a Soil Column Approach

Yasser Refaey (University of Amsterdam, Netherlands)

	Chair: Brett Robinson (Lincoln University, New Zealand)
	Filip M. G. Tack (Universiteit Gent, Belgium)
	Room: E2.010
13:40 - 14:00	Soil Contamination in the Seine River Basin: an Attempt to Relate Land-Use to Persistent and Emerging Metallic Pollutions
	Sophie Ayrault (Laboratoire des Sciences du Climat et de l'Environnement, France)
14:00 - 14:20	From Old Mines to Brown Trouts - Tracing the Fate of Hg & Pb in a High Mountain Catchment Using Stable-Isotopes
	Sophia V. Hansson (Université de Toulouse; INP, UPS; EcoLab; ENSAT, France)
14:20 - 14:40	Soil Cadmium Uptake by Cocoa in Honduras
	Anja Gramlich (ETH Zurich, Switzerland)
14:40 - 15:00	Soil Organic Matter and Salinity Modify Cadmium Mobility in Soil
	Lana Filipović (Faculty of Agriculture University of Zagreb, Croatia)
15:00 - 15:30	Refreshment Break and Poster Session
15:30 - 15:50	Barium Leaching from Alluvial Soils and Certified Reference Materials
	Valérie Cappuyns (KU Leuven, Belgium)
15:50 - 16:10	Hexavalent Chromium Dynamics in Acidic and Limed Soils and its Effect on Origanum vulgare
	Vasileios Antoniadis (University of Thessaly, Greece)
16:10 - 16:30	Modeling Chromate Partition in Soil Minerals/Water Phases
	Xueyuan Gu (Nanjing University, China)
16:30 - 16:50	The Role of Clay Minerals, Hydroxides, and Timing of Dissolved Organic Matter Addition in the

Monday, 12 September 2016

Poster Contributions

S01-P01

S01-P02

S01-P03

S01-P09

Heavy Metals in the Finest Size Fractions of Road Dust Christof Lanzerstorfer (University of Applied Sciences Upper Austria, Austria) Trace Metals in Topsoils and Street Dust Sampled in the São Paulo University Campus, Brazil Christine Bourotte (Geoscience Institute, University of São Paulo, Brazil) Capacity to Accumulate Thallium in Surface Microlayer of Water of Urban Ponds (north Poland)

Damian Panasiuk (Cardinal Stefan Wyszynski University, Poland)

S01-P04

Geochemical Characterization of Road Dust in Urban Environments

Ewa Adamiec (AGH University of Science and Technology, Poland)

S01-P05 Co-Occurrence of Mercury and Carbon in Size-Segregated Particulate Matter in Urban Air
Halina Pyta (Institute of Environmental Engineering of the Polish Academy of Sciences, Poland)
S01-P06 Particulate Mercury and Carbon in Urban and Non-Urban Sites in Poland

S01-P06 Particulate Mercury and Carbon in Urban and Non-Urban Sites in Poland
Halina Pyta (Institute of Environmental Engineering of the Polish Academy of Sciences, Poland)
Heavy Metals in Urban Dust - Anthropogenic Versus Natural Sources

Heavy Metals in Urban Dust - Anthropogenic Versus Natural Sources
Neele van Laaten (Friedrich Schiller University Jena, Germany)

S01 - Contamination in the Urban Environment

S01-P08 Assessment of Composition and Properties of Urban Dust Near Large Cu Smelter

Yury G. Tatsy (Vernadsky Institute of Geochemistry and Analytical Chemistry, Russian Academy of Sciences, Russian Federation)

Accumulation of Trace Metals in Leaf Vegetables Cultivated in High Traffic Areas in Ghent, Belgium Veronique Troch (University College Ghent, Belgium)

S02 - Remediation of Heavy Metal Contamination in Soil, Water and Air

S02-P01 Extraction and Transport of Cd Ions Through a Polymer Inclusion Membrane Containing
Tetraalkylphosphonium Ionic Liquid as a Carrier
Claudia Fontas (University of Girona, Spain)
S02-P02 Removal of Metals and Metalloids by Mg-Fe Layered Double Hydroxides
Barbora Hudcová (Czech University of Life Sciences Prague, Czech Republic)
S02-P03 Washing Sludge from Neutralization Cyanide in the Process of Benefit of Gold in a Mine

Washing Sludge from Neutralization Cyanide in the Process of Benefit of Gold in a Mine in North of Colombia

Iván Urango Cardenas (University of Cordoba, Colombia)

S02-P04 Immobilization of Co²⁺ and Sr²⁺ on Lesscrystallized Mg-Al Layered Double Hydroxides (LDH)

Sayo Moriyama (Kyushu University, Japan)

S02-P05 Modeling of Cr(VI) Adsorption on Mixtures of Selected Soil Minerals

Veronika Veselská (Czech University of Life Sciences Prague, Slovakia)

S03 - Bioavailability: 21st Century Nexus between Site Characterization, Risk Assessment, and Remediation

S03-P01 Heavy Metals and Gut Microbes Interactions

Shiv Bolan (University of Newcastle, Australia)

S03-P02 Mechanisms and Permanence of Sequestered Pb and as in Soils: Impact on Mobility and

Bioavailability

Nicholas basta (Ohio State University, United States)

S03-P03	Combined Bioassays and X-Ray Spectroscopy for Studying the Bioavailability of Arsenic in Contaminated Soils Using Earthworms Gattullo Concetta Eliana (University of Bari, Italy)
S03-P04	Modelling the Effect of Sorption Model on pH Buffering and U Retention Diederik Jacques (Belgian Nuclear Research Centre, Belgium)
S03-P05	Comparison of Bioavailability Measurements Determined Using Juvenile Swine and Adult Mouse Models for Arsenic Contaminated Soils
S03-P06	Brooke N. Stevens (Ohio State University, United States) Predicting Arsenic Bioavailability in Moderately Contaminated Soils Shane Whitacre (Ohio State University, United States)
	S04 - Heavy Metals in Terrestrial Ecosystems
S04-P01	Cumulative Distribution Functions to Describe Uranium Solid-Liquid Distribution Coefficients in Soils Anna Rigol (University of Barcelona, Spain)
S04-P02	A Generic Reactive Transport Model to Simulate the Fate of Heavy Metals in Soils: Mercury as a Case Study
S04-P03	Diederik Jacques (Belgian Nuclear Research Centre, Belgium) Heavy Metal Bioaccumulation in the Spider <i>Xerolycosa nemoralis</i> (Lycosidae) from Variously Polluted Areas
S04-P04	Elżbieta Szulińska (University of Silesia, Poland) Coordination Chemistry of Selenate in Ettringite Binglin Guo (Kyushu University, Japan)
S04-P05	Vegetative Parameters and Mineral Components of Salt-Sensitive Strawberry Exposed to Combined Salt Stress and Cadmium Contamination
S04-P06	Gabrijel Ondrasek (University of Zagreb, Croatia) Canopy Influence on Trace Metal Dynamics of Snowfall, Snowpack, and Snowmelt Yannick Agnan (Desert Research Institute, United States)
S04-P07	Solubility of As and Sb in Soils Enriched from Various Sources in Lower Silesia, Poland Katarzyna Szopka (Wrocław University of Environmental and Life Sciences, Poland)
	S05 - Heavy Metals in Sediments: Biogeochemistry and Remediation
S05-P01	Arsenic Speciation in Surface Sediments of Marque River (Northern France)
S05-P01 S05-P02	Arsenic Speciation in Surface Sediments of Marque River (Northern France) Josselin Gorny (Université de Lille 1, France) Resuspension of Metal Contaminated Sediments and Caged Gammarid Responses in Navigated Channelized Rivers
	Arsenic Speciation in Surface Sediments of Marque River (Northern France) Josselin Gorny (Université de Lille 1, France) Resuspension of Metal Contaminated Sediments and Caged Gammarid Responses in Navigated Channelized Rivers Dumoulin David (LASIR - Université Lille 1, France) Concentration of Zr, Cr, Cu, Zn and Fe, Mn in River Sediments and Soils of Different Types of Southern Baltic Catchment
S05-P02	Arsenic Speciation in Surface Sediments of Marque River (Northern France) Josselin Gorny (Université de Lille 1, France) Resuspension of Metal Contaminated Sediments and Caged Gammarid Responses in Navigated Channelized Rivers Dumoulin David (LASIR - Université Lille 1, France) Concentration of Zr, Cr, Cu, Zn and Fe, Mn in River Sediments and Soils of Different Types of Southern Baltic Catchment Saniewska Dominika (University of Gdańsk, Poland) Major and Trace Elements Distribution in Sediments of a Southeastern Brazilian Coastal Environments
S05-P02 S05-P03	Arsenic Speciation in Surface Sediments of Marque River (Northern France) Josselin Gorny (Université de Lille 1, France) Resuspension of Metal Contaminated Sediments and Caged Gammarid Responses in Navigated Channelized Rivers Dumoulin David (LASIR - Université Lille 1, France) Concentration of Zr, Cr, Cu, Zn and Fe, Mn in River Sediments and Soils of Different Types of Southern Baltic Catchment Saniewska Dominika (University of Gdańsk, Poland)
S05-P02 S05-P03 S05-P04	Arsenic Speciation in Surface Sediments of Marque River (Northern France) Josselin Gorny (Université de Lille 1, France) Resuspension of Metal Contaminated Sediments and Caged Gammarid Responses in Navigated Channelized Rivers Dumoulin David (LASIR - Université Lille 1, France) Concentration of Zr, Cr, Cu, Zn and Fe, Mn in River Sediments and Soils of Different Types of Southern Baltic Catchment Saniewska Dominika (University of Gdańsk, Poland) Major and Trace Elements Distribution in Sediments of a Southeastern Brazilian Coastal Environments Eduardo Schettini Costa (Federal University of Espírito Santo, Brazil) Temporal Changes of Metal Contamination of Marine Sediments Due to an Industrial Plant
S05-P02 S05-P03 S05-P04 S05-P05	Arsenic Speciation in Surface Sediments of Marque River (Northern France) Josselin Gorny (Université de Lille 1, France) Resuspension of Metal Contaminated Sediments and Caged Gammarid Responses in Navigated Channelized Rivers Dumoulin David (LASIR - Université Lille 1, France) Concentration of Zr, Cr, Cu, Zn and Fe, Mn in River Sediments and Soils of Different Types of Southern Baltic Catchment Saniewska Dominika (University of Gdańsk, Poland) Major and Trace Elements Distribution in Sediments of a Southeastern Brazilian Coastal Environments Eduardo Schettini Costa (Federal University of Espírito Santo, Brazil) Temporal Changes of Metal Contamination of Marine Sediments Due to an Industrial Plant Elena Romano (ISPRA, Italy) Surface Geochemical Provinces of the Espírito Santo Basin, Southeast Brazil. Fabian Sá (Federal University of Espírito Santo, Brazil) Total Mercury Ditribution in Organic Matter Extracted from Sources of Sediment Samples With Different Types of Water in the Amazon Basin
S05-P02 S05-P03 S05-P04 S05-P05 S05-P06	Arsenic Speciation in Surface Sediments of Marque River (Northern France) Josselin Gorny (Université de Lille 1, France) Resuspension of Metal Contaminated Sediments and Caged Gammarid Responses in Navigated Channelized Rivers Dumoulin David (LASIR - Université Lille 1, France) Concentration of Zr, Cr, Cu, Zn and Fe, Mn in River Sediments and Soils of Different Types of Southern Baltic Catchment Saniewska Dominika (University of Gdańsk, Poland) Major and Trace Elements Distribution in Sediments of a Southeastern Brazilian Coastal Environments Eduardo Schettini Costa (Federal University of Espírito Santo, Brazil) Temporal Changes of Metal Contamination of Marine Sediments Due to an Industrial Plant Elena Romano (ISPRA, Italy) Surface Geochemical Provinces of the Espírito Santo Basin, Southeast Brazil. Fabian Sá (Federal University of Espírito Santo, Brazil) Total Mercury Ditribution in Organic Matter Extracted from Sources of Sediment Samples With Different Types of Water in the Amazon Basin Luiz Fabricio Zara (University of Brasília, Brazil) Which Is the Influence of Anthropogenic Inputs on Metal Contamination Pattern in Surface Bottom Sediments from a Urban River Catchment?
S05-P02 S05-P03 S05-P04 S05-P05 S05-P06 S05-P07	Arsenic Speciation in Surface Sediments of Marque River (Northern France) Josselin Gorny (Université de Lille 1, France) Resuspension of Metal Contaminated Sediments and Caged Gammarid Responses in Navigated Channelized Rivers Dumoulin David (LASIR - Université Lille 1, France) Concentration of Zr, Cr, Cu, Zn and Fe, Mn in River Sediments and Soils of Different Types of Southern Baltic Catchment Saniewska Dominika (University of Gdańsk, Poland) Major and Trace Elements Distribution in Sediments of a Southeastern Brazilian Coastal Environments Eduardo Schettini Costa (Federal University of Espírito Santo, Brazil) Temporal Changes of Metal Contamination of Marine Sediments Due to an Industrial Plant Elena Romano (ISPRA, Italy) Surface Geochemical Provinces of the Espírito Santo Basin, Southeast Brazil. Fabian Sá (Federal University of Espírito Santo, Brazil) Total Mercury Ditribution in Organic Matter Extracted from Sources of Sediment Samples With Different Types of Water in the Amazon Basin Luiz Fabricio Zara (University of Brasília, Brazil) Which Is the Influence of Anthropogenic Inputs on Metal Contamination Pattern in Surface Bottom

S05-P11	Metal Features in Sediment from a Mediterranean River Basin (Tafna River, Algeria): Hydrological and Anthropic Influences
	Benabdelkader Amine (EcoLab/Legen, Algeria)
S05-P12	Trace Metals Remobilization During Resuspension of Contaminated Sediment from a Dam Reservoir Monnin Lucie (CEREGE UM34, France)
S05-P13	Sediment Quality, Metal Bioaccumulation and Antimicrobial Properties of Mangroves of Sundarban, India
	Punarbasu Chaudhuri (University of Calcuta, India)
	S11 - Bioremediation of Metal Contamination
S11-P01	Environmental Metabarcoding Reveals Contrasting Microbial Communities at Two Poplar Phytomanagement Sites
	Michel Chalot (Université de Bourgogne Franche-Comté, France)
S11-P02	Rhizoremediation of Co-Contaminants Using Australian Native Vegetation
	Nanthi Bolan (University of Newcastle, Australia)
S11-P03	Combined Approach to Assisted Phytoextraction: Influence of Chelators, Microbial Consortium and
	Co-Planting
	Agnieszka Kutrowska (Adam Mickiewicz University in Poznań, Poland)
S11-P04	Phytoremediation of Pb-Contaminated Soils Using Vetiver Grass
644 505	Behnaz Attaeian (Malayer University, Iran)
S11-P05	Phytoremediation and the Fate of Heavy Metals in Digestated Pulp
C44 D0C	Isaias Emilio Paulino do Carmo (Poznan University of Life Sciences, Brazil)
S11-P06	Phytoextraction of Mercury, Arsenic and Lead in Constructed Wetlands Planted With Juncus effusus,
	Typha Latifolia and Cyperus alternifolius
C44 D07	Siday Marrugo (University of Cordoba, Colombia)
S11-P07	Phytochem: Developing Eco-Innovative Chemical Processes to Valorise Phytoremediation-Borne
	Biomasses Michael Chalet (Université de Bourgeagne Franche Counté France)
C11 D00	Michel Chalot (Université de Bourgogne Franche-Comté, France)
S11-P08	Mercury Uptake Into Poplar Leaves
C11 DOO	Mohamad Assad (Université de Bourgogne Franche-Comté, France)
S11-P09	Arundo Donax L. for Phytostabilization of an Industrial Polluted Soil: Plant Performance and Variations in Soil Biological Fertility
	Nunzio Fiorentino (Universita' degli Studi di Napoli Federico II, Italy)
S11-P10	Effects of Mixed Cropping Four Herbaceous Plants on the Phytoremediation of Combined Heavy Metal Contamination
	Dong Ying Bo (University of Science and Technology Beijing, China)
S11-P11	Enhancing Phytoremediation Technique in Contaminated Soils Using Novel Biotechnology Alaa El-Din Mohamed Zaghloul (National Research Center, Egypt)
	Aud El Din Monamed Zaginour (Madional Nescarcin Center), Egypty

Tuesday, 13 September 2016

Day Schedule

14:10 - 15:10

14:10 - 15:10

15:10 - 15:40

and Clinical Treatment

Refreshment Break and Poster Session

Track 4: S09 - Heavy Metals in the Aquatic Environment

	Plenary Lecture
	Chair: Filip M. G. Tack (Universiteit Gent, Belgium) Room: Oehoe
08:30 - 09:10	Current Status, Gaps and Needs in Sustainable Treatment and Management of Metal Contaminated Sediments
	Anna Knox (Savannah River National Laboratory, United States)
	Parallel Sessions
09:10 - 10:10	Track 1: S06 - Contamination from Long-range Atmospheric Transport of Heavy Metals
09:10 - 10:10	Track 2: S07 - Risk Based Management of Heavy Metal Contaminated Soils
09:10 - 10:10	Track 3: S08 - Risk Assessment and Health Impact: Pathways, Transformation, Bioavailability, Toxicity and Clinical Treatment
09:10 - 10:10	Track 4: S09 - Heavy Metals in the Aquatic Environment
10:10 - 10:40	Refreshment Break and Poster Session
	Parallel Sessions
10:40 - 12:00	Track 1: S06 - Contamination from Long-range Atmospheric Transport of Heavy Metals
10:40 - 12:00	Track 2: S07 - Risk Based Management of Heavy Metal Contaminated Soils
10:40 - 12:00	Track 3: S08 - Risk Assessment and Health Impact: Pathways, Transformation, Bioavailability, Toxicity
10.40 13.00	and Clinical Treatment
10:40 - 12:00	Track 4: S09 - Heavy Metals in the Aquatic Environment
12:00 - 13:30	Lunch and Poster Session
	Plenary Lecture
	Chair: Filip M. G. Tack (Universiteit Gent, Belgium) Room: Oehoe
13:30 - 14:10	Analytical Results on Heavy Metals in Environmental Samples – Fit for Taking Decisions? Hendrik Emons (Institute for Reference Materials and Measurements, Belgium)
	Parallel Sessions
14:10 - 15:10	Track 1: S10 - Diffuse Contamination and Contamination over Large Areas
14:10 - 15:10	Track 2: S11 - Bioremediation of Metal Contamination

Track 3: S08 - Risk Assessment and Health Impact: Pathways, Transformation, Bioavailability, Toxicity

15:40 - 17:00	Track 1: S10 - Diffuse Contamination and Contamination over Large Areas
15:40 - 17:20	Track 2: S11 - Bioremediation of Metal Contamination
15:40 - 17:00	Track 3: S08 - Risk Assessment and Health Impact: Pathways, Transformation, Bioavailability, Toxicity
	and Clinical Treatment
15:40 - 17:20	Track 4: S12 - Fate of Emerging Elements and Nanoparticles in the Environment

Tuesday, 13 September 2016

Parallel Sessions

Parallel session 1

S06 - Contamination from Long-range Atmospheric Transport of Heavy Metals

Chair: Claude Boutron (Joseph Fourier University, France)

Eiliv Steinnes (Norwegian University of Science and Technology, Norway)

Room: E1.012

09:10 - 09:30	Chemical Cycling and Deposition of Atmospheric Mercury in Polar Regions: New Insights and Remaining Research Gaps Hélène Angot (Laboratoire de Glaciologie et Géophysique de l'Environnement, France)
09:30 - 09:50	Soil and Plant Hg Dynamics in the Arctic Tundra Christine Hedge (Desert Research Institute, United States)
09:50 - 10:10	Atmospheric Mercury Across the Australian Continent Dean Howard (Macquarie University, Australia)
10:10 - 10:40	Refreshment Break and Poster Session
10:40 - 11:00	Atmospheric Transport of Metals to Norway 1975-2015 Eiliv Steinnes (Norwegian University of Science and Technology, Norway)
11:00 - 11:20	Heavy Metals in Precipitation and in Aerosols in Sweden and in Northern Finland Ingvar Wängberg (IVL Swedish Environmental Research Institute, Sweden)
11:20 - 11:40	Trends in Forest Soil Heavy Metal Concentrations at Swedish ICP IM Sites: Responses to Reductions in Atmospheric Deposition
11:40 - 12:00	Staffan Åkerblom (Swedish University of Agricultural Sciences, Sweden) Mercury Stable Isotope Compositions in Airborne Particulate Matter in Ambient Air of China Xinbin Feng (Institute of Geochemistry, Chinese Academy of Sciences, China)
12:00 - 13:30	Lunch and Poster Session

S10 - Diffuse Contamination and Contamination over Large Areas

Chair: Xinbin Feng (Institute of Geochemistry, Chinese Academy of Sciences, China)

Irena Twardowska (Polish Academy of Sciences, Poland)

Room: E1.012

14:10 - 14:30	Sources Contribution to Metal Concentrations in PM2.5 in a Coastal Industrialized Area
	Pascal Flament (Université du Littoral Côte d'Opale, France)
14:30 - 14:50	Inventory of Mercury Emission to Air, Water and Soil in Poland for Year 2014
	Damian Panasiuk (Cardinal Stefan Wyszynski University, Poland)
14:50 - 15:10	Historical Variations of Mercury Stable Isotope Ratios Recorded in High Arctic Snow.
	Christian Zdanowicz (Uppsala University, Sweden)
15:10 - 15:40	Refreshment Break and Poster Session

15:40 - 16:00	Role of Forests in the Global Biogeochemical Cycling of Mercury
	Che-Jen Lin (Lamar University, United States)
16:00 - 16:20	Landuse Impact on Metals in Stormwater: Mass Loads and Size Fractionation
	Erica R. McKenzie (Temple University, United States)
16:20 - 16:40	Assesment of Temporal Trends of Trace Metals Over France Between 1996 and 2011: How to Include
	the Effects of the Protocol and the Geographical Variations?
	Emeline Lequy (Museum National d'Histoire Naturelle, France)
16:40 - 17:00	The Impact of Military Activities on the Concentration of Mercury in Marine Sediments and Soils of
	Military Training Grounds
	Jacek Bełdowski (Institute of Oceanology, Polish Academy of Sciences, Poland)
17:00 - 18:15	Interactive Poster Session

12:00 - 13:30

S07 - Risk Based Management of Heavy Metal Contaminated Soils

Chair: Jayanta Kumar Biswas (University of Kalyani, India)

	Erik Meers (Universiteit Gent, Belgium)
	Room: E1.015
09:10 - 09:30	Biotransformation of Heavy Metal(loid)s in Relation to Bioavailability and Remediation Nanthi Bolan (University of Newcastle, Australia)
09:30 - 09:50	Impact of Emerging and Low Cost Alternative Amendments on the (im)mobilization and Phytoavailability of Cd, Cu, Ni, Pb, and Zn in a Contaminated Floodplain Soil Sabry Mohamed Shaheen (University of Kafrelsheikh, Egypt)
09:50 - 10:10	Mobility and Toxicity of Heavy Metal(loid)s Arising from Contaminated Wood Ash Application to a Pasture Grassland Soil. Luke Beesley (James Hutton Institute, United Kingdom)
10:10 - 10:40	Refreshment Break and Poster Session
10:40 - 11:00	Reduction of Cd Plant-Availability on Paddy Soil Elena Bocharnikova (Institute of Physicochemical and Biological Problems of Soil Science of the RAS, Russian Federation)
11:00 - 11:20	Liming Effects on Heavy Metal Bioavailability in Acid Soils Niklas Lehto (Lincoln University, New Zealand)
11:20 - 11:40	Heavy Metal Cycling in Former Industrial Land: Implications for Safe and Effective Urban Renewal Emily Hepburn (RMIT University, Australia)
11:40 - 12:00	Alkaline Hydrothermal Stabilization of Cr(VI) in a Sandy Soil Gattullo Concetta Eliana (University of Bari, Italy)

S11 - Bioremediation of Metal Contamination

Lunch and Poster Session

	Chair: Franz Jirsa (University of Vienna, Austria) Lena Ma (Nanjing University, China) Room: E1.015
14:10 - 14:30	Endophytic Rhizobacteria and Companion Planting Influence on Efficiency of Assisted Phytoextraction Agnieszka Kutrowska (Adam Mickiewicz University in Poznań, Poland)
14:30 - 14:50	Isolation and Characterization of Dark Septate Endophytes: Towards Their Use in the Phytomanagement of Metal-Contamined Sites? Damien Blaudez (Universite de Lorraine, France)

14:50 - 15:10	Gentle Remediation Options of Copper Contaminated Soils: Aided Phytostabilisation and Phytoextraction
	Lydie Le Forestier (Institut des Sciences de la Terre d'Orléans, France)
15:10 - 15:40	Refreshment Break and Poster Session
15:40 - 16:00	Application of a Red Mud Derivate in the Phytostabilisation of Mine Tailings: Effects on Trace Elements
	Solubility, Speciation and Plant Accumulation
	Rafael Clemente (CEBAS-CSIC, Spain)
16:00 - 16:20	Phytoextraction of Trace Metals With Noccaea caerulescens for Urban Agriculture Development
	Arnaud Jacobs (Université Libre de Bruxelles, Belgium)
16:20 - 16:40	The Use of Energy Crop Species for Phytoremediation of Heavy Metal Contaminated Sites
	Jacek Krzyżak (Institute for Ecology of Industrial Areas, Poland)
16:40 - 17:00	An Ecotechnological Tool for Cadmium Sequestration Using Waste Stabilization Ponds in India
	Jayanta Kumar Biswas (University of Kalyani, India)
17:00 - 17:20	Biological Treatments of Cadmium Contamination Continental Waters With Spirulina platensis
	(Nordst.) Geitl. Immobilized in Na-Alginate Beads
	Popescu Tudor (Université de Science et Technologies de Lille, France)
	- · · · · · · · · · · · · · · · · · · ·

S08 - Risk Assessment and Health Impact: Pathways, Transformation, Bioavailability, Toxicity and Clinical Treatment

Nanthi Bolan (The University of Newcastle, Australia) Daeseon Kim (National Institute of Environmental Research, Republic of Korea) Jerome Nriagu (University of Michigan, United States) Room: E2.009 09:10 - 09:30 Cadmium and Mercury Levels in the Urine of a Belgian Adult Population Pirard Catherine (Centre Hospitalier Universitaire de Liège, Belgium) 09:30 - 09:50 The Relationship Between Urinary Metals Concentrations and Oxidative Stress in a Cohort of School Age Children. Andrea Hinwood (Edith Cowan University, Australia) 09:50 - 10:10 To What Extent Agrochemicals Exposure Affects Male Gonads? Armindo Rodrigues (University of the Azores, Portugal) 10:10 - 10:40 Refreshment Break and Poster Session 10:40 - 11:00 Chronic Exposure to Indoor Radon in a Hydrothermal Area and DNA Damage in Oral Epithelial Cells Patrícia Garcia (University of the Azores, Portugal) 11:00 - 11:20 Lung Bioaccessibility of Metals in Particulate Matter obtained from Geological Samples Gerald Zagury (Institut de Recherche en Mines et Environnement, Canada) 11:20 - 11:40 Arsenic Induced Skin Lesions and its Association to Inflammatory Cytokines Muntasha Quddus (University of Chicago, United States) 11:40 - 12:00 Could Consumption of Tea from Street Vendors Pose a Risk for Aluminium Accumulation: a Pilot Study Sharda Shah Peshin (All India Institute of Medical Sciences, New Delhi, India) 12:00 - 13:30 Lunch and Poster Session 14:10 - 14:30 Site-Specific Risk Assessment of Lead in Surface Waters With BLM-Tool PNEC-pro V6. Jos P.M. Vink (Deltares, Netherlands) Relative Risk Approach: a Methodology for the Ecological Risk Classification of Inorganic Substances 14:30 - 14:50 Marie-Claude Sauvé (Environment and Climate Change Canada, Canada) 14:50 - 15:10 Trace Elements in Commercial Infant Food: a Simplified Risk Assessment

Miguel Izquierdo (Universidad Politecnica de Madrid, Spain)

15:10 - 15:40	Refreshment Break and Poster Session
15:40 - 16:00	Combining Risk Assessment and Life Cycle Assessment to Derive Remediation Standards for Soil Contaminated by Heavy Metals Deyi Hou (Tsinghua University, China)
16:00 - 16:20	Multi-Metal Investigation in Groundwater and Saliva in an Area of West Bengal, India Subhamoy Bhowmick (University of Kalyani, India)
16:20 - 16:40	Water Quality and Metal Exposure Assessment in the Krka River, Karstic Phenomenon and National Park in Croatia Vlatka Filipović Marijić (Ruđer Bošković Institute, Croatia)
16:40 - 17:00	Hazard Traffic Lights and Total Hazard Points: Two Legislation-Based Methodologies for Risk Assessment of Materials Gonzalo Rodriguez Garcia (Helmholtz Institute Ulm for Electrochemical Energy Storage, Germany)

S09 - Heavy Metals in the Aquatic Environment

	·
	Chair: Bruce Fowler (Emory University Rollins School of Public Health, United States) Anna Knox (Savannah River National Laboratory, United States)
	Room: E2.010
09:10 - 09:30	Metal Pollution Status of Suspended Particulate Matter and the Influence of Anthropogenic Activities of the Deba River Urban Catchment
	Jon Garcia-Garcia (University of Basque Country, Spain)
09:30 - 09:50	Impact of Marine Mercury Cycling on Coastal Atmospheric Mercury
09:50 - 10:10	Johannes Bieser (Helmholtz Zentrum Geesthacht, Germany) Global Patterns of Mercury Contamination in Cetaceans
09.30 - 10.10	Maike Sabel (Leibniz Center for Tropical Marine Ecology, Germany)
10:10 - 10:40	Refreshment Break and Poster Session
10:40 - 11:00	Mercury Concentration Variation in Different Fish Species of the Gulf of Riga and the Baltic Sea Natalija Suhareva (Latvian Institute of Aquatic Ecology, Latvia)
11:00 - 11:20	Influence of Mercury Concentration on Methylation in Freshwater Sediments from Scottish Canals Olga Cavoura (National School of Public Health, Greece)
11:20 - 11:40	Biotic Mercury Methylation in Settling Particles from the Water Column of an Oxic Freshwater System Elena Gascon Diez (University of Geneva, Switzerland)
11:40 - 12:00	Methylmercury Production by the Gut Microbiota of Herbivorous and Piscivorous Freshwater Fishes from Cazaux-Sanguinet Lake (South-Western France) Elisabeth Carlier (Université de Pau et des pays de l'Ardour, France)
12:00 - 13:30	Lunch and Poster Session
14:10 - 14:30	Molecular Organic Matter Composition Controls Mercury Methylation in Boreal Lake Sediments Andrea Garcia Bravo (Uppsala University, Sweden)
14:30 - 14:50	The Impacts of Nutrient Supply on Aquatic Mercury Dynamics and Plankton Methylmercury Concentrations
14:50 - 15:10	Anne Soerensen (Stockholm University, Sweden) Impacts of Environmental Change on Methylmercury Bioaccumulation in Marine Ecosystems Amina Schartup (Harvard T.H. Chan School of Public Health, United States)
15:10 - 15:40	Refreshment Break and Poster Session

S12 - Fate of Emerging Elements and Nanoparticles in the Environment

Chair: Gijs Du Laing (Universiteit Gent, Belgium)

Dan Tsang (The Hong Kong Polytechnic University, Hong Kong)

Room: E2.010

15:40 - 16:00	Should nanoparticles be used in sunscreens
	Brian Gulson (Macquarie University, Australia)
16:00 - 16:20	Effects of Nanoscale Zero-Valent Iron (nZVI) and Fe ₂ O ₃ Nanoparticles on Root Hydraulic Conductivity of
	Solanum Licopersicum
	Domingo Martínez-Fernández (Czech University of Life Sciences Prague, Czech Republic)
16:20 - 16:40	Dispersion and Mobility of Technology-Critical Elements in the Aquatic Environment and Sediments of
	the Flanders Scheldt Estuary
	Folens Karel (Ghent University, Belgium)
16:40 - 17:00	Distribution and Speciation of Rare Earth Elements in Coal Combustion Byproducts
	Mengling Stuckman (National Energy Technology Laboratory - Department of Energy, United States)
17:00 - 17:20	Interactions Between Terrestrial Plants and Rare Earth Oxide Nanoparticles
	Zhiyong Zhang (Institute of High Energy Physics, Chinese Academy of Sciences, China)

Tuesday, 13 September 2016

Poster Contributions

	S07 - Risk Based Management of Heavy Metal Contaminated Soils
S07-P01	Potential Value of Synthetic and Natural Phosphate Compounds in Enhancing Immobilization and Reducing Bioavailability of Mixed Heavy Metal Contaminants Nanthi Bolan (University of Newcastle, Australia)
S07-P02	Effect of Alkaline Amendments on Solubility and Phytoavailability of Zinc and Copper in Abattoir Wastewater Water Irrigated Soil Balaji Seshadri (University of Newcastle, Australia)
S07-P03	Derivation of Soil Criteria for Cadmium Applying Species Sensitivity Distribution Changfeng Ding (Institute of Geochemistry, Chinese Academy of Sciences, China)
S07-P04	Effect of Organic and Inorganic Amendments on the Arsenic and Cadmium Bioavailability in Soils Claudia Rocco (Universita' degli Studi di Napoli Federico II, Italy)
S07-P05	Sulphur Supply Increases the Potential of Massai Grass for Cadmium Phytoextraction Flávio Henrique Silveira Rabêlo (University of São Paulo, Brazil)
S07-P06	Stability of Heavy Metals (Cd, Pb and Zn) in Contaminated Soil Upon Treatment With Calcined Clam Shell
S07-P07	Mohammad Nazrul Islam (Chonnam National University, Republic of Korea) Risk Element Sorption Characteristics in Soil Treated by Biologically Transformed Dry Olive Residue (DOR) Jiřina Száková (Czech University of Life Sciences Prague, Czech Republic)
S07-P08	Assessment of Activated Carbon and Compost for the Remediation of a Mine Impacted Soil Teresa Fresno (Universidad Autónoma de Madrid, Spain)
S07-P09	How Soil Amendments Affect Toxic Elements Mobility and Willow Growth in Highly Multi- Contaminated Soil Stanislava Vondráčková (Czech University of Life Sciences Prague, Czech Republic)
S07-P10	Various Mechanisms and Effects of Cu and as Release from Strongly Polluted Amended With Sewage Sludge
	Katarzyna Szopka (Wrocław University of Environmental and Life Sciences, Poland)
	S08 - Risk Assessment and Health Impact: Pathways, Transformation, Bioavailability, Toxicity and Clinical Treatment
S08-P01	Characteristics of Pollution and Ecological Risks Associated With Heavy Metals in the Fuyang River in China Yuxi Gao (Institute of High Energy Physics, Chinese Academy of Sciences, China)
S08-P02	Heavy Metal Contents of Food Seasonings and Bouillon Cubes from Aba, Abia State Nigeria Alisachristopher Onyemeziri (Federal University of Technology Owerri, Nigeria)
S08-P03	Heavy Metal Contents of Tobacco Leaves and Snuff Products from Southeastern Nigeria Alisachristopher Onyemeziri (Federal University of Technology Owerri, Nigeria)
S08-P04	Assessment of Pollution Levels and Human Health Risk of Heavy Metals in Snow Dust (Case Study, Yerevan)
S08-P05	Nairuhi Maghakyan (Center for Ecological-Noosphere Studies, Armenia) Study on the Solid-Phase Fractionation of Potentially Toxic Elements in House Dust Within the Human Health Framework Paula Marinho Reis (Universidade de Aveiro, Portugal)

S08-P06	Korea National Survey for Environmental Pollutants in the Human Body 2008: Heavy Metals in the
	Blood Or Urine of the Korean Population
	Jin Heon Lee (Kongju National University, Republic of Korea)
S08-P07	Mercury Exposure Levels Among Schoolchildren and Related Factors and Health Effect in High
	Mercury Exposure Areas in Korea
	Daeseon Kim (National Institute of Environmental Research, Republic of Korea)
S08-P08	Effects of Blood Lead on Intelligence and Personality in Schoolchildren
	Daeseon Kim (National Institute of Environmental Research, Republic of Korea)
S08-P09	Serum Heavy Metal Levels of Residents in the Vicinity of a Petrochemical Complex in Taiwan
	Tzu-Hsuen, Yuan (National Taiwan University, Taiwan)
	S09 - Heavy Metals in the Aquatic Environment
S09-P01	Function of the Hyporheic Zone in the Cd and Zn Transfer in the BiaŁa Przemsza River Valley
	Urszula Aleksander-Kwaterczak (AGH University of Science and Technology, Poland)
S09-P02	Heavy Metal Contents in Deep Aquifers from the Republic of Moldova
	Barbara Nisi (CNR-IGG Institute of Geosciences and Earth Resources, Italy)
S09-P03	Mercury in Fish from Brazilians River and Reservoirs Hydroelectric Power Plant
	Luiz Fabricio Zara (University of Brasília, Brazil)
S09-P04	Estimated Loads and Geochemical Baselines of Heavy Metals in Sediments in a Watershed of
	Northeastern Brazil
	Francisco Jose de Paula Filho (Federal University of Cariri, Brazil)
S09-P05	Concentrations and Loads of Metals (V, Cr, Mn, Fe, Cu, Zn, As, Rb, Y, Zr) from the Cliff Erosion to the
	Gulf of Gdansk
	Jacek Bełdowski (Institute of Oceanology, Polish Academy of Sciences, Poland)
S09-P06	Mercury in the Zoobenthos of the Coastal Zone of the Puck Bay (Southern Baltic Sea)
	Bełdowska Magdalena (University of Gdansk, Institute of Oceanography, Poland)
S09-P07	Metals Forms Distribution in the Surface Waters of the Kola North Under Different Atmospheric
	Precipitation
	Marina Dinu (Vernadsky Institute of Geochemistry and Analytical Chemistry, Russian Academy of
	Sciences, Russian Federation)
S09-P08	Monitoring Heavy Metals in Water, Suspended Particulates, Sediment and Clam Flesh at Clam Farms
	in Coastal Area of Ho Chi Minh City, Vietnam
500 000	Nguyen Phuoc Dan (Ho Chi Minh City University of Technology, Viet Nam)
S09-P09	Zinc in an Oligotrophic Patagonic Lake: Response to a Natural Environmental Disaster in Low Trophic
	Levels (AAA) CNEA A CNE
500 040	Sergio Ribeiro Guevara (LAAN-CNEA, Argentina)
S09-P10	Methylmercury Production and Associated Microbial Diversity Within an Oligotrophic Temperate
	Freshwater Lake (Cazaux-Sanguinet Lake, South-Western France)
	Elisabeth Carlier (Université de Pau et des pays de l'Ardour, France)
	C10 Diffuse Contemination and Contemination over Large Areas
	S10 - Diffuse Contamination and Contamination over Large Areas
S10-P01	Does Nitrogen Supply Impact the Cadmium Fluxes to Developing Durum Wheat Grains?
310-101	Bofang Yan (French National Institute for Agricultural Research, France)
S10-P02	First Investigations of Metal Contents and Pb Isotopes in Protected Salt Marsh Sediments (NORTH Sea
310 1 02	Coast of France)
	Françoise Henry (Université du Littoral Côte d'Opale, France)
S10-P03	Assessment of Anthropogenic Trace Metals and Rare Earth Elements in a Subtropical Urban Area (The
310 1 03	Danshui System, Taiwan)
	Lerat Antoine (University of Bordeaux, France)
S10-P04	Spatial Distribution and Contamination of Heavy Metals in Soils of Arzew Algeria
220 / 0 !	Boudia Hayat (University of Science and Technology of Oran, Algeria)
S10-P05	Effects of Annual Precipitation on Heavy Metals in Runoff from Soils in the US Great Plains
220 / 00	Moustafa A. Elrashidi (National Soil Survey Center, United States)
S10-P06	Grapevine Accumulation of Potentially Toxic Elements from Vineyard Soil
/ 00	Tijana Milićević (University of Belgrade, Serbia)
	,

S10-P07	Cadmium Level in Soil, Coarse Fodder, Organs and Tissue of Cattle in West Siberia
	Valeriy Petukhov (Novosibirsk State Agrarian University, Russian Federation)
S10-P08	Can Diffuse Source Analysis Help to Prioritise Chemicals Risk Management for Metals?
	Hugo Waeterschoot (Eurometaux- European Association of Metals, Belgium)
S10-P09	Radioisotopes as Indicators of Heavy Metals Translocation in the Environment
	Piotr Godyń (University of Opole, Poland)
S10-P10	Mass-Dependent and -Independent Mercury Isotope Fractionation During Gas-Phase Oxidation of
	Elemental Mercury Vapor by the Atomic Halogens Cl and Br
	Jonas Sommar (Institute of Geochemistry, Chinese Academy of Sciences, China)
S10-P11	Source Identification Using Pb Isotopic Composition: Contamination Fingerprinting in City of Ostrava,
	Czech Republic
	Anna Kunčíková (Czech University of Life Sciences Prague, Czech Republic)
S10-P12	Optimization of Lead (Pb) Isotopes Measurement Using Quadrupole-Inductively Coupled Plasma Mass
010 : 11	Spectrometer (Q-ICP-MS).
	Abida Usman (University of Nottingham, Pakistan)
S10-P13	Systematic Study of Stable Isotope (Hg, C & N) in Bivalves Along the French Coastline: Preliminary
310 1 13	Results from the Trococo Project
	Briant Nicolas (Institut Français de Recherche pour l'Exploitation de la Mer, France)
S10-P14	Lead Chemical and Isotope Characterisation in the Upper Loire River Basin, France
310-714	Romain Nigris (Université du Québec à Montréal, Canada)
S10-P15	Distribution and Isotopic Signature of Pb in the Environment of Arctic Norway
310-513	
C10 D16	Hana Šillerová (Czech University of Life Sciences Prague, Czech Republic)
S10-P16	Spatial and Temporal Trends of the Contamination in an Urban Catchment: Coupling Metal Isotope
	Geochemistry and Radionuclide Chronometers.
C40 D47	Claire Froger (Laboratoire des Sciences du Climat et de l'Environnement, France)
S10-P17	Atmospheric Mercury Measurements at Cape Point, South Africa: Latest Trends and Findings
	Lynwill Martin (SA Weather Service, South Africa)
	C12 Fate of Francisco Flavorete and Namonauticles in the Fusing manner
	S12 - Fate of Emerging Elements and Nanoparticles in the Environment
C12 D01	The Jufficence of Court besic Weeking Considered on the Microstower, they of Titamete Namenestavial and its
S12-P01	The Influence of Synthesis Washing Specimen on the Microstructure of Titanate Nanomaterial and its
	Adsorption Property of Lead(II)
642 002	Jin Zhang (Technische Universität Dresden, Germany)
S12-P02	Adsorption Characteristics of Hazardous Oxoanions on HDPy-Modified Montmorillonite
	Wuhui Luo (Kyushu University, Japan)
	C17 Interactions of Diants with Matala
	S17 - Interactions of Plants with Metals
S17-P01	Effects of Selenium on the Uptake and Speciation of Mercury in Plants and Further in the Food Chains
317 101	Anja Kavcic (University of Ljubljana, Slovenia)
S17-P02	The Cell Wall as Shield Against Cadmium Toxicity: Proteome Changes in Alfalfa Stems Exposed to
317-702	Cadmium
	Annelie Gutsch (Luxembourg Institute of Science and Technology, Luxembourg)
S17-P03	Bioconcentration of Mercury by Oyster Mushroom (<i>Pleurotus ostreatus</i>) from Southern Nigeria
317-F03	Nnorom Innocent Chidi (Abia State University Uturu, Nigeria)
S17-P04	
317-204	Effect of Sulfur Application on Soil Copper Forms Chairtee Tradition (Halleria Agricultural Organization "Demotor") Crosses
C17 DOF	Christos Tsadilas (Hellenic Agricultural Organization "Demeter", Greece)
S17-P05	Multivariate Data of Trace Elements in Mushroom Sarcodon imbricatus
647 006	Martyna Saba (University of Gdańsk, Poland)
S17-P06	Some Metallic Elements and Arsenic in Medicinal Wolfiporia extensa from Polymetallic Soils
047.00-	Martyna Saba (University of Gdańsk, Poland)
S17-P07	Radioactive Caesium in <i>Cortinarius caperatus</i> Mushrooms
	Jerzy Falandysz (University of Gdańsk, Poland)
S17-P08	Mercury in Unprocessed and Household Processed Mushrooms
	Jerzy Falandysz (University of Gdańsk, Poland)
S17-P09	Cadmium Leaching from a Household Treated Chantharelles and Cadmium Uptake from the
	Chantharelles in a Meal

	Jerzy Falandysz (University of Gdańsk, Poland)
S17-P10	Trace Elements Composition of Boletus Mushrooms from the Province of Yunnan, China
017 . 10	Martyna Saba (University of Gdańsk, Poland)
S17-P11	Variability in Grain Cadmium Concentration Among Durum Wheat Cultivars: Impact of Aboveground
	Biomass Partitioning
	Cornu Jean-Yves (Institut National de Recherche Agronomique, France)
S17-P12	Imaging Radiocesium Movements in Intact Plants
	Naoki kawachi (National Institutes for Quantum and Radiological Science and Technology, Japan)
S17-P13	The Ros-Medited Copper Toxicity in Rye Varieties
	Krzysztof Gediga (Wrocław University of Environmental and Life Sciences, Poland)
S17-P14	The Accumulation of Compounds Heavy Metal by Fussy Mathematic Evaluation and the Antioxidant
	Enzymes Activities in Five Species of Terrestrial Plants
	Hai Lin (University of Science and Technology Beijing, China)
S17-P15	Heavy Metal Effects on the Green Alga Chlamydomonas reinhardtii: a Gene Transcription Study
	Nikos Lydakis-Simantiris (Technological Educational Institute of Crete, Greece)
S17-P16	Accumulation of Mercury in Different Rice Genotypes Cultivated in Soils from the Region of La
	Mojana, Colombia
	Siday Marrugo (University of Cordoba, Colombia)
S17-P17	Noninvasive Imaging of Zinc Movement in an Intact Plant Using 65Zn
	Nobuo Suzui (National Institutes for Quantum and Radiological Science and Technology, Japan)
S17-P18	Effects of the Exogenous Glycinebetaine on Photosynthetic Apparatus in Cucumber Leaves Challenging
	Al Stress
	Piotr Stepien (Wrocław University of Environmental and Life Sciences, Poland)
S17-P19	Unraveling Aspects Related To Tolerance Of Tomato Accessions Under Cadmium-Induced Stress
	Marcia Carvalho (University of São Paulo, Brazil)
S17-P20	An Empirical Model To Predict Cadmium Concentrations in Cultivated Spinach
	Filip M. G. Tack (Ghent University)

Wednesday, 14 September 2016

Day Schedule

	Parallel Sessions
08:30 - 10:10	Track 1: S13 - Geophysical/geochemical Methods of Soil Pollution Assessment with Airborne Potentially Toxic Elements in problematic areas
08:30 - 10:10	Track 2: S14 - Heavy Metals and Biochar Interactions
08:30 - 10:10	Track 3: S15 - Records of Anthropogenic Contamination
08:30 - 10:10	Track 4: S16 - Interactions of Biota with Metals
10:10 - 10:40	Refreshment Break and Poster Session
	Parallel Sessions
10:40 - 12:00	Track 1: S13 - Geophysical/geochemical Methods of Soil Pollution Assessment with Airborne Potentially Toxic Elements in problematic areas
10:40 - 12:00	Track 2: S14 - Heavy Metals and Biochar Interactions
10:40 - 12:00	Track 3: S15 - Records of Anthropogenic Contamination
10:40 - 12:00	Track 4: S17 - Interactions of Plants with Metals
12:00 - 13:30	Lunch and Poster Session
	Parallel Sessions
14:10 - 14:50	Track 1: S13 - Geophysical/geochemical Methods of Soil Pollution Assessment with Airborne Potentially Toxic Elements in problematic areas
14:10 - 15:10	Track 2: S19 - Waste Streams and Secondary Resources
14:10 - 15:10	Track 3: S15 - Records of Anthropogenic Contamination
14:10 - 15:10	Track 4: S17 - Interactions of Plants with Metals
15:10 - 15:40	Refreshment Break and Poster Session
	Plenary Lecture
	Chair: Filip M. G. Tack (Universiteit Gent, Belgium) Room: Oehoe
15:40 - 16:20	New concepts and upcoming challenges in the environmental risk assessment of metals Koen Oorts (Arche-consulting, Belgium)
	Parallel Sessions
16:20 - 18:00 16:20 - 17:40	Track 1: S18 - Advances in Analytical Tools and Speciation Analysis Track 2: S19 - Waste Streams and Secondary Resources
	Conference Dinner
19:30 - 23:00	Conference Dinner in Handelsbeurs, Kouter 29 9000 Gent

Wednesday, 14 September 2016

Parallel Sessions

Parallel session 1

S13 - Geophysical/geochemical Methods of Soil Pollution Assessment with Airborne Potentially Toxic Elements in problematic areas

Chair: Tadeusz Magiera (Polish Academy of Sciences, Poland) Irena Twardowska (Polish Academy of Sciences, Poland)

Room: E1.012

08:30 - 08:50	Tracing Metals in Soil by Magnetic Parameters
	Karl Fabian (Geological Survey of Norway, Norway)
08:50 - 09:10	Cross-Variograms of Geochemical, Vertical and Surface Magnetometric Measurements in Areas With
	Strong Anthropogenic Pressure
	Piotr Fabijańczyk (Warsaw University of Technology, Poland)
09:10 - 09:30	Endmember Analysis of Magnetic Properties of Soils from Norway and Poland
	Karl Fabian (Geological Survey of Norway, Norway)
09:30 - 09:50	Discrimination Between Different Sources of Soil Pollutants Using Magneto-Geochemical Data Set
	Marcin Szuszkiewicz (Institute of Environmental Engineering of the Polish Academy of Sciences, Poland)
09:50 - 10:10	Enhancement of Magnetic Susceptibility of Soil Resulting from Resuspension of Dust from a
	Metallurgical Slag Heap
	Małgorzata Wawer (Institute of Environmental Engineering of the Polish Academy of Sciences, Poland)
10:10 - 10:40	Refreshment Break and Poster Session
10:40 - 11:00	Mapping Heavy Metal Distribution Around the Kozani-Ptolemais Power Plants (Northern Greece)
	Using Magnetic Parameters of Soils
	Simo Spassov (Royal Meteorological Institute of Belgium, Belgium)
11:00 - 11:20	Impact of Iron Mining and Nikel-cupper Metallurgy on Surface Soil Magnetic Susceptibility in Pasvik
	Valley (Northern Norway)
	Tadeusz Magiera (Institute of Environmental Engineering of the Polish Academy of Sciences, Poland)
11:20 - 11:40	Assessment of Transboundary Metal Deposition from a Copper-Nickel Smelter Complex Using Peat
	from an Ombrotrophic Bog
	Sebastian Stefaniak (Institute of Environmental Engineering of the Polish Academy of Sciences, Poland)
11:40 - 12:00	Ombrothrophic Peatlands as a Tool for Evaluation of Cumulative Anthropogenic Trace Element
	Deposition from Long-Range Transport
	Irena Twardowska (Institute of Environmental Engineering of the Polish Academy of Sciences, Poland)
12:00 - 13:30	Lunch and Poster Session
13:30 - 13:50	Poland as a Source Region of Heavy Metal Deposition in Norway as Assessed by Analysis of Peat Cores
	Eiliv Steinnes (Norwegian University of Science and Technology, Norway)
13:50 - 14:10	Determination of Atmospheric Deposition of Arsenic and Selenium Across King George Island
	(Antarctica) Using Neutron Activation Analysis
	Tomasz Mróz (Pedagogical Univeristy in Cracow, Poland)
14:10 - 14:30	Transfer of an Industrial Marker, from Atmosphere to Life
	Sophie Ayrault (Laboratoire des Sciences du Climat et de l'Environnement, France)

14:30 - 14:50 Evidencing Distant and Local Influences of Industrial and Other Metal Sources in PM2.5 in a Medium

Dominique Courcot (Université du Littoral Côte d'Opale, France)

15:10 - 15:40 Refreshment Break and Poster Session

S18 - Advances in Analytical Tools and Speciation Analysis

Hendrik Emons (Institute for Reference Materials and Measurements, Belgium)

Filip M. G. Tack (Universiteit Gent, Belgium)

Room: E1.012

16:20 - 16:40 Advancement in Single Particle ICP-MS - From Femtogram Detection Limits to Single Cell Analysis Chady Stephan (Perkin Elmer) 16:40 - 17:00 Mercury Isotopic Analysis Via Cold Vapor Generation - Multi-Collector-ICP-Mass Spectrometry as a Key **Tool for Evaluating Pollution in Marine Ecosystems** Ana Rua Ibarz (Ghent University, Belgium) 17:00 - 17:20 Exploring New Sensors Based on Functionalized Membranes for Mercury Monitoring in Aquatic **Environments** Claudia Fontas (University of Girona, Spain) Tandem ICP-Mass Spectrometry With Chemical Resolution: an Ideal Tool for the Determination of 17:20 - 17:40 **Ultra-Trace Concentrations of Metals and Metalloids in Environmental Samples** Eduardo Bolea Fernandez (Ghent University, Belgium) 17:40 - 18:00 Effects of Selective Extraction Schemes on Redox-Sensitive Sb: Implications for Environmental **Quantitative Sb Radionuclide Dispersion Scenarios** Teba Gil-Díaz (University of Bordeaux, France)

Parallel session 2

S14 - Heavy Metals and Biochar Interactions

Chair: Jörg Rinklebe (Bergische Universität Wuppertal, Germany)

Filip M. G. Tack (Universiteit Gent, Belgium)

Room: F1 015

	Room: E1.015
08:30 - 08:50	Copper-Accumulation in Vineyard Soils as Consequence of Fungicide Applications - Biochar as Rescue? Gerhard Soja (AIT Austrian Institute of Technology GmbH, Austria)
08:50 - 09:10	Biochar and Iron Sulfate as Amendments for an As and Cu Contaminated Soil Teresa Fresno (Universidad Autónoma de Madrid, Spain)
09:10 - 09:30	Potential of Biochar Derived from Pig Manure for Cd Stabilization and Improved Plant Yield Christophe Loix (Centre for Environmental Sciences, Belgium)
09:30 - 09:50	Biochar Reduces the Release of Heavy Metals Under Dynamic Redox Conditions in Contaminated Wetland Soils
	Joerg Rinklebe (University of Wuppertal, Germany)
09:50 - 10:10	Biochar as an Amendment for the Remediation of Heavy Metal Contaminated Soil Reinhart Van Poucke (Universiteit Gent, Belgium)
10:10 - 10:40	Refreshment Break and Poster Session
10:40 - 11:00	Effect of Different Biochar to Reduce Metal(loid)s Availability in Contaminated Mining Soils and to Promote Poplar Growth
	Bourgerie Sylvain (University of Orléans, France)
11:00 - 11:20	Application of a British Hardwood Biochar in Soil Remediation
44.00.44.40	Zhengtao Shen (University of Cambridge, United Kingdom)
11:20 - 11:40	Remediation of Extremely Contaminated Soil With Cd, Pb and Zn Using Biochar – 3 Years Experiment Katerina Brendova (Czech University of Life Sciences Prague, Czech Republic)

Weiyi Pan (Peking University, China)

Refreshment Break and Poster Session

Marko Klaic (University of Vienna, Austria)

Majda Pavlin (Jožef Stefan Institute, Slovenia)

Liesbeth Van Laer (SCK-CEN, Belgium)

Simo Pehkonen (University of East Finland, Finland)

Uptake of Cu(II) Ions

Polyvinyl Alcohol Beads

11:40 - 12:00	Removing of Metal(loid)s from Aqueous Solution Using Biochar and its Modifications Lukas Trakal (Faculty of Environmental Sciences, CULS Prague, Czech Republic)
12:00 - 13:30	Lunch and Poster Session
	S19 - Waste Streams and Secondary Resources
	Chair: Gijs Du Laing (Universiteit Gent, Belgium)
	Gerald Zagury (Polytechnique Montréal, Canada)
	Room: E1.015
13:30 - 13:50	Heavy Metals and the Beneficial Reuse of Biowastes
	Brett Robinson (Lincoln University, New Zealand)
13:50 - 14:10	Life Cycle Assessment of Waste from Electric and Electronic Equipment: a Review
	Gonzalo Rodriguez-Garcia (Helmholtz Institute Ulm for Electrochemical Energy Storage, Germany)
14:10 - 14:30	Effect of Energy Grass Additions on Methane Production and Heavy Metal Fractionation During
	Anaerobic Digestion of Sewage Sludge
	Changming Yang (Tongji University, China)

Shape-dependent Adsorption of Selenium and Tellurium by MIIFe2O4

Magnetic Chrysotile Nanotubes Modified With pH-Sensitive Poly(methacrylic Acid) for Enhanced

Heavy Metal Extraction from Aqueous Solutions Using Ionic Liquids Immobilized in Polypropylene and

Properties of Mercury in Gypsum Studied by Mass Spectrometry Technique in Development of

Theresa Rosenkranz (University of Natural Resources and Life Sciences, Vienna, Austria)

Bioremediation of Soil Irrigated With Sewage Effluent Benefitting New Kinetic Tactics

Studying Zn Sorption on Clays in the Context of Geological Disposal of Radioactive Waste

Alaa El-Din Mohamed Zaghloul (National Research Center, Egypt)

Parallel session 3

14:30 - 14:50

14:50 - 15:10

15:10 - 15:40

16:20 - 16:40

16:40 - 17:00

17:00 - 17:20

17:20 - 17:40

17:40 - 18:00

S15 - Records of Anthropogenic Contamination

Methodologies for Safe Secondary Use Or Disposal of Gypsum

Increasing Phytomining Efficiency on Waste Incineration Bottom Ash

	. •
	Chair: Sophie Ayrault (Laboratoire des Sciences du Climat et de l'Environnement, France) Claude Boutron (Joseph Fourier University, France) Sophia Hansson (ENSAT in Toulouse, France)
	Room: E2.009
08:30 - 08:50	Assessment of Historical Trace Metals Contamination Along a River-Estuarine-Coastal Gradient in Sediment Cores from the Garonne-Gironde System (France)
	Guia Morelli (University of Bordeaux, France)
08:50 - 09:10	Mercury Contamination and Bacterial Activity Downstream of a Chlor-Alkali Plant in the Olt River Andrea Garcia Bravo (Uppsala University, Sweden)
09:10 - 09:30	Novel EDTA-Based Method of Washing Pb Contaminated Soils: Hazard Mitigation and Sustainable Soil Use
	Domen Lestan (University of Ljubljana, Slovenia)

09:30 - 09:50	Historical Perspective on the Hazards of Environmental Heavy Metals Contamination of Sediments of the Odra River Valley (Poland/Germany)
09:50 - 10:10	Aleksandra Ibragimow (Polish-German Research Institute, Poland) Distribution of Sediment-Associated Metals in a Relatively Pristine Watershed Following the Catastrophic Failure of a Mine Tailings Storage Facility in British Columbia, Canada Philip N. Owens (University of Northern British Columbia, Canada)
10:10 - 10:40	Refreshment Break and Poster Session
10:40 - 11:00	The Worst Brazilian Environmental Disaster Altered the Distribution of Metals in Water at the Doce River Estuary and Marine Region Renato Neto (Universidade Federal do Espírito Santo, Brazil)
11:00 - 11:20	Chromium Contamination of Water Due to Ni Mines, New-Caledonia
11:20 - 11:40	Peggy Gunkel-Grillon (University of New-Caledonia, New Caledonia) Distribution of Mercury, Antimony and Arsenic in the Shallow Groundwater System from the Former Hg-Mining Areas of Abbadia San Salvatore (Tuscany, Central Italy)
11:40 - 12:00	Orlando Vaselli (University of Florence, Italy) Control of Metals from Energy and Industrial Sources Jozef M. Pacyna (NILU - Norwegian Institute for Air Research, Norway)
12:00 - 13:30	Lunch and Poster Session
13:30 - 13:50	Assessment of Vertical Contamination of Cd, Pb and Zn in Soils Around a Former Ore Smelter in Wallonia, Belgium
13:50 - 14:10	Amandine Liénard (Université de Liège - Gembloux Agro-Bio Tech, Belgium) Surficial Soil Contamination Around a Zinc Processing Factory Dumoulin David (LASIR - Université Lille 1, France)
14:10 - 14:30	Transfer of Trace Metals Between Air, Soil and Cacao Beans in Areas Impacted by Oil Activities in Ecuador
14:30 - 14:50	Fiorella Barraza (Geosciences Environnement Toulouse (GET). Université Paul Sabatier, France) Chronology of Metal Pollution in Golden Horn Estuary Istanbul, Derived from ²¹⁰ Pb and ¹³⁷ Cs Dating Murat Belivermiş (Istanbul University, Turkey)
14:50 - 15:10	From Iron Ore to Ecotoxiological Impacts: One Thousand Years of Manganese History Quentin Petitjean (University of Franche-Comté, France)
15:10 - 15:40	Refreshment Break and Poster Session

S16 - Interactions of Biota with Metals

Chair: Kevin Francesconi (University of Graz, Austria) Franz Jirsa (University of Vienna, Austria) Room: E2.010

08:30 - 08:50	Heavy Metals in the Mallard Anas platyrhynchos from Eastern Austria
	Christof Plessl (University of Vienna, Austria)
08:50 - 09:10	Accumulation of Heavy Metals in Samples of Biota Growing in the Forest Areas of Southern and North
	Eastern Poland in the Years 2014-2015
	Maria Zielińska (University of Opole, Poland)
09:10 - 09:30	Combined Exposure to Metal Mixtures and Predator Stress: Sublethal Effects on Asellus aquaticus
	Marjolein Van Ginneken (University of Antwerp, Belgium)
09:30 - 09:50	Isotope Ratio Indicators for the Source of Lead Poisoning in Mute Swans
	Łukasz Binkowski (Pedagogical University of Cracow, Poland)
09:50 - 10:10	A Report of Heavy Metal and Porphyrins Levels in Penguins
	Winfred E. Espejo (University of Concepción, Chile)

10:10 - 10:40 Refreshment Break and Poster Session

S17 - Interactions of Plants with Metals

Shosaku Kashiwada (Toyo University, Japan)

Refreshment Break and Poster Session

15:10 - 15:40

	Chair: Jayanta Kumar Biswas (University of Kalyani, India) Erik Meers (Universiteit Gent, Belgium)
	Room: E2.010
10:40 - 11:00	Localization and Bioavailability of Mercury and Selenium in Edible Mushrooms Boletus edulis and
	Scutiger pes-caprae
	Katarina Vogel-Mikus (University of Ljubljana, Slovenia)
11:00 - 11:20	Increased Temperature Enhances Photosynthesis and Inhibits Copper Uptake in E. siliculosus
	Alex Santillan-Sarmiento (Plymouth University, United Kingdom)
11:20 - 11:40	Demethylation of Methylmercury in Growing Rice: an Evidence of Rice Self-Detoxification for Hg
	Pollution?
	Jiating Zhao (Institute of High Energy Physics, Chinese Academy of Sciences, China)
11:40 - 12:00	Root-Applied Glutathione Inhibits Cadmium Translocation from Roots to Shoots Selectively in Oil Seed
	Rape Plants
	Shin-ichi Nakamura (Akita Prefectural University, Japan)
12:00 - 13:30	Lunch and Poster Session
13:30 - 13:50	Cadmium-Induced Effects on Endoreduplication in Leaves of Arabidopsis thaliana
	Sophie Hendrix (Hasselt University, Belgium)
13:50 - 14:10	Plant-Microbe Symbiotic System Based on Cadmium Tolerant Pea Mutant, Mycorrhizal Fungus, Rhizobia and PGPR
	Andrey Belimov (All-Russia Research Institute for Agricultural Microbiology, Russian Federation)
14:10 - 14:30	Multi-Metal Resistance and Plant Growth Promotion Potential of a Wastewater Bacteria and its
14.10 - 14.30	Synergistic Benefits
	Jayanta Kumar Biswas (University of Kalyani, India)
14:30 - 14:50	Desferrioxamine B vs. EDTA for Improving the Phytoextraction of Metals by Sunflower
11.50 14.50	Cornu Jean-Yves (Institut National de Recherche Agronomique, France)
14:50 - 15:10	Spatio-Temporal Analyses of 100 Year Heavy Metals Pollution in the Watarase River and Biological
150 15.10	Responses of Japanese Dace. Tribolodon hakonensis

Wednesday, 14 September 2016

Poster Contributions

	S13 - Geophysical/geochemical Methods of Soil Pollution Assessment with Airborne Potentially Toxic Elements in problematic areas
S13-P01	Geostatistical Assessment of the Risk of Soil Contamination Using Soil Magnetometry Piotr Fabijańczyk (Warsaw University of Technology, Poland)
S13-P02	Application of Soil Magnetometry for the Soil Pollution Study in Upper Silesia (Southern Poland) in Two Different Scenarios
S13-P03	Tadeusz Magiera (Institue of Environmental Engineering, Polish Academy of Sciences, Poland) Discriminant Analysis of Heavy Metal Contamination in the Depth Soil Young-Tae Jo (Chonnam National University, Republic of Korea)
S13-P04	Juxtaposing recent and sub-recent magnetic impact records of air pollution – bio- and soil magnetic monitoring in a Belgian harbour area Ynse Declercq (Ghent University, Belgium)
	S14 - Heavy Metals and Biochar Interactions
S14-P01	Valorisation of By-Products and Biochar to Reduce Arsenic and Copper Mobility in Contaminated Soils Rebeca Manzano (Universidad Autonoma de Madrid, Spain)
S14-P02	Sorption of Heavy Metals on Modified Biochars for Soil Remediation Reinhart Van Poucke (Ghent University, Belgium)
S14-P03	Effects of a Biochar Amendment to Improve the Physicochemical Characteristics of a Former Mine Extraction Soil Contaminated Mainly by Pb and As and to Enhance the Growth of Three Willow Species Bourgerie Sylvain (université d'Orléans, France)
	S15 - Records of Anthropogenic Contamination
S15-P02	Main Source and Sink of Mercury in a Catchment of Wanshan Hg Mining Area, Guizhou Zhihui Dai (Institute of Geochemistry, Chinese Academy of Sciences, China)
S15-P03	Research on the Migration Simulation of Heavy Metal Cr, Pb and Zn in Soil of Mining Area Jihong Dong (China University of Mining & Technology, China)
S15-P04	Trace Metals in Mangrove Soils in the Subaé River Basin, Bahia, Brazil Jorge Antonio Gonzaga Santos (Universidade Federal do Recôncavo da Bahia, Brazil)
S15-P05	Adsorption of Heavy Metals on Road-Deposited Sediment: Kinetic and Isotherm Investigations Jin Zhang (Technische Universität Dresden, Germany)
S15-P06	Natural Attenuation of Arsenate-Contaminated River Impacted by Acid Mine Drainages: Characterization of Suspended Particulate Matters Keiko Sasaki (Kyushu University, Japan)
S15-P07	Leaching of Lead (Pb) in Abandoned Mine Soil in Column Leaching Experiment Nguyen Xuan Phuc (Chonnam National University, Democratic People's Republic of Korea)
S15-P08	Integrated Assessment of Lead in Soil from a Battery-Disposal Site Before Remediation Paola Adamo (Universita' degli Studi di Napoli Federico II, Italy)
S15-P09	Heavy Metals Distribution of Artemisia argyi Grown in Indigenous Zinc Smelting Slag Yishu Peng (Guizhou University, China)
S15-P10	Potentially Harmful Elements in Breakages of Glazed Tiles from Three Sites in Lithuania

Ričardas Taraškevičius (Nature Research Centre, Lithuania)

S15-P11	Acid Rains and Behavior of Heavy Metals in Geochemical Technogenic Area
	Yury G. Tatsy (Vernadsky Institute of Geochemistry and Analytical Chemistry, Russian Academy of Sciences, Russian Federation)
S15-P12	Distribution of Thallium in Scots Pine from a Pyrite Mining and Smelting Area, South China Juan Liu (Guangzhou University, China)
S15-P13	5500 Years of Lead Deposition Recorded in Staroselskii Moch, an Ombrotrophic Peat Bog in Nw Russia Tatiana Pampura (Institute of Physicochemical and Biological Problems of Soil Science of the RAS, Russian Federation)
	S16 - Interactions of Biota with Metals
S16-P01	Trace Metals Enroute Wastewater and Their Toxicity to Marine Fish Using Gaussian Model
S16-P02	Ah Bu-Olayan (Kuwait University, Kuwait) Arsenic Biotransformation by Microcystis Aeruginosa Under Different Nitrogen and Phosphate Levels Changzhou Yan (Institute of Urban Environment, Chinese Academy of Sciences, China)
S16-P03	Silver Accumulation in Chironomid Larvae in Relation to Their Ecological Preferences in an Ultraoligotrophic Lake
	Sergio Ribeiro Guevara (LAAN-CNEA, Argentina)
S16-P04	Calcium Concentration in Muscle Longissimus thoracis and Meat Tendernes of Nellore Cattle José Cavalcante Souza Vieira (Sao Paulo State University, Brazil)
S16-P05	Mercury Fractionation in Tucunaré (Cichla spp) and Filhote (Brachyplathystoma filamentosum) from Brazilian Amazon
S16-P06	José Cavalcante Souza Vieira (Sao Paulo State University, Brazil) Metallomic Study of Hg in Muscle Tissue of Jaraqui João Vitor de Queiroz (UNESP Botucatu, Brazil)
S16-P07	Effects of Spinosad on Vitellogenin Expression in the Cadmium-Selected Beet Armyworm Strain Maria Augustyniak (University of Silesia, Poland)
S16-P08	Evaluation of the Immune System of Female <i>Steatoda grossa</i> (Theridiidae) Spider Exposed to Food Contaminated With Copper
545 800	Monika Stalmach (University of Silesia, Poland)
S16-P09	Stress Markers in the Beet Armyworm from Control and Cadmium Starins Exposed to Additional Stressors Manilla Targanuska (University of Silesia, Paland)
S16-P10	Monika Tarnawska (University of Silesia, Poland) Mercury Cadmium and Selenium in Liver and Muscle of Mediterranean Spearfish Stefania Ancora (University of Siena, Italy)
S16-P11	Heavy Metal Resistance in Bacteria Isolated from Humboldt Penguin (<i>Speniscus humboldti</i>) Excreta Winfred E. Espejo (University of Concepción, Chile)
	S18 - Advances in Analytical Tools and Speciation Analysis
S18-P01	Task Specific Ionic Liquids for Solvent Bar Micro-Extraction of Heavy Metals Jose Antonio Lopez-Lopez (University of Cádiz, Spain)
S18-P02	A New Approach for Sampling and Monitoring of Dissolved Heavy Metals in Urban Runoff by Means of Passive Sampler Sorbicell
S18-P03	Md Tariqul Islam Shajib (University of Copenhagen, Denmark) Factorial Design for Method Development Aiming at Selenium Determination in Broccoli Parts by GFAAS
S18-P04	Daiane Placido Torres (Embrapa Clima Temperado, Brazil) Analysis of Selected Mercury Compounds in Environmental Samples Using Thermo-Desorption Technique
C10 D05	Saniewska Dominika (University of Gdańsk, Poland)
S18-P05	Determination of Trace Elements in the Open Ocean: Method Validation Emiliya Vasileva-Veleva (IAEA Environment Laboratories, Monaco)
S18-P06	Factors That Influenced Drying Procedure of the Samples Intended for Trace Metals Analyses. Magdalena Semla (Pedagogical University of Cracow, Poland)
S18-P07	High Resolution ICP-OES: a Powerful Diagnostic Tool for Nuclear Forensic Studies

Krachler Michael (European Commission-Joint Research Centre-Institute for Transuranium Elements, Germany) S18-P08 Application of APDC for Separation of Chromium, Thallium and Arsenic Forms from Water Samples -**Preliminary Results** Natalia Ospina-Alvarez (Universität Potsdam, Germany) **S19 - Waste Streams and Secondary Resources** S19-P01 The Fate of Heavy Metals in Anaerobic Digestion Process Ivona Sigurniak (Ghent University, Belgium) The Analysis of the Transition Metal Contents of Leached Out Bottom Ash S19-P02 Tom de Wolf (University of Technology Eindhoven, Netherlands) S19-P03 Grouping of Radionuclides in the Belgian Geological Disposal Concept for Radioactive Waste Benny de Blochouse (ONDRAF/NIRAS, Belgium) S19-P04 Trace Metal Distribution and Mobility in Drill Cuttings from Marcellus Shale Gas Extraction Mengling Stuckman (National Energy Technology Laboratory - Department of Energy, United States) S19-P05 Stability and Immobilizing Potential of Novel Surface-Modified Amorphous Manganese Oxide Zuzana Michalkova (Czech University of Life Sciences Prague, Czech Republic) S19-P06 Impact of Scrap Tyre Dumps on Soil Contamination Inmaculada Valverde-Asenjo (Universidad Complutense de Madrid, Spain) S19-P07 Thermodynamic Study of Mercury Containing Waste by Pyrolysis Yailen Busto Yera (Technological University of Israel, Ecuador) S20 - Bioindication and Biomonitoring (B&B) Technologies for Observing the Environment S20-P01 Concentrations of Heavy Metals in Moss as Indicators for Atmospheric Deposition Winfried Schröder (Universität Vechta, Germany) S20-P02 Investigating Role of Phragmites australis as Heavy Metals Pollution Indicator in Dez River, Iran Farzad Veysanlu (Islamic Azad University, Iran) S20-P03 Integrative Assessment of Data Measured by Biomonitoring and Calculated by Use of Models **Indicating Atmospheric Deposition of Heavy Metals** Stefan Nickel (Universität Vechta, Germany) Building a Monitoring System for Metals in Wild Commercial Fish in the North East Atlantic S20-P04 Amund Maage (NIFES, Norway) S20-P05 Biomonitoring of Metals by Using Mussel Mytilus qalloprovincialis in Rehabilitated Estuary: Golden Horn Murat Belivermiş (Istanbul University, Turkey)

Thursday, 15 September 2016

Day Schedule

Parallel Sessions

08:50 - 10:30 Track 1: S20 - Bioindication and Biomonitoring (B&B) Technologies for Observing the Environment
 08:50 - 10:30 Track 2: S21 - Spatial and Temporal Changes in Environmental Contamination
 10:30 - 11:00 Refreshment Break

Plenary Lecture

Chair: Filip M. G. Tack (Universiteit Gent, Belgium)

Room: Oehoe

11:00 - 11:30 Green Revolution and Worldwide Decline in Concentration of Trace Metals in Our Food Supply
Jerome Nriagu (University of Michigan, United States)

Closing Session

Chair: Filip M. G. Tack (Universiteit Gent, Belgium)

Room: Oehoe

11:30 - 12:00 **Closing Session**

12:00 - 13:30 Lunch

Thursday, 15 September 2016

Parallel Sessions

Parallel session 1

S20 - Bioindication and Biomonitoring (B&B) Technologies for Observing the Environment

Chair: Bernd Markert (International Graduate School Zittau, Germany)

Simone Wünschmann (Environmental Institute of Scientific Networks, Germany)

Room: E1.012

08:50 - 09:10	The Biological System of Elements - Beneficial, Essential and Toxicological Effects of Chemical Elements Revisited
	Simone Wünschmann (Environmental Institute of Scientific Networks, Germany)
09:10 - 09:30	Biomonitoring Long-Term and Large-Scale Deposition of Pollutants Based on Moss Analyses
03.10 03.30	Marina Frontasyeva (Joint Institute for Nuclear Research, Russian Federation)
09:30 - 09:50	Metal Contamination Monitoring With Aquatic Bryophytes: Impact of an Abandoned Mine Site on the
	River Merse (Central Italy)
	Fabrizio Monaci (University of Siena, Italy)
09:50 - 10:10	Urban Green as Indicator of Metal Pollution
	Ana Castanheiro (University of Antwerp, Belgium)
10:10 - 10:30	Microscopical Analysis of Particulate Matter Intercepted by Moss-Bags in Urban, Industrial and
	Agricultural Areas of Three EU Countries
	Simonetta Giordano (Università di Napoli Federico II, Italy)
10:30 - 11:00	Refreshment Break
10.30 - 11.00	nejresiinent breuk

Parallel session 2

S21 - Spatial and Temporal Changes in Environmental Contamination

Chair: Sophie Ayrault (Laboratoire des Sciences du Climat et de l'Environnement, France)

Kevin Francesconi (University of Graz, Austria)

Room: E1.015

08:50 - 09:10	Trends of Atmospheric Trace Elements at a Sub-Arctic Site Pallas in Finland in 1996-2014
	Katriina Kyllönen (Finnish Meteorological Institute, Finland)
09:10 - 09:30	Emissions, Controls and Isotope Signatures of Hg from Coal-Fired Power Plants in Southern China
	Zhonggen Li (Institute of Geochemistry, Chinese Academy of Sciences, China)
09:30 - 09:50	Sedimentary Record of Anthropogenic Metal Inputs in the Tuzla Shipyard (Turkey)
	Erol Sari (Istanbul University, Turkey)
09:50 - 10:10	Quantifying Present and Future Mercury Deposition and Bioaccumulation to Rice in China
	Sae Yun Kwon (Massachusetts Institute of Technology, United States)
10:10 - 10:30	Atmospheric Speciation of Mercury at Ny-Ålesund
	Torunn Berg (Norwegian University of Science and Technology, Norway)
10:30 - 11:00	Refreshment Break