

PROGRAMME

➤ **Monday, December 2nd 2019: first day**

16:30 – 17:00 Registration

17:00 – 19:00 Welcome Reception at Izrael Poznański's Palace

➤ **Tuesday, December 3rd 2019: second day**

7.30 – 8.30 Registration

8.30 – 9.00 Opening Ceremony

Session 1 (Chairs: M.I. Szyrkowska, B. Jovancicevic)

9:00 – 9:40 Plenary lecture (PL1):

B. Buszewski *"A new concept in metabolism study of toxins in environmental and biological samples"*

9:40 – 10:05 Invited lecture (IL1):

P. Stepnowski *"Analytical challenges in fate assessment of pharmaceuticals in the environment"*

10:05 – 10:35 Coffee break/Poster session

Session 2A - aula A (Chairs: K. Chojnacka, N. Ratola)

10:35 – 11:00 Invited lecture (IL2):

O. Đuragić *"Plant-based by-products: environmental hazard or valuable feed ingredient?"*

11:00 – 11:15 Oral presentation (OP1):

N. Zarić *"Elemental composition of individual honeybees and their use as environmental bioindicators"*

11:15 – 11:30 Oral presentation (OP2):

M. Bavcon Kralj *"Are common household preparations effective in removing pesticide residues from citrus fruits?"*

11:30 – 11:45 Oral presentation (OP3):

M. Passananti *"Degradation of nanoplastics in water: impact on gaseous and aqueous phase organic carbon"*

11:45 – 12:00 Oral presentation (OP4):

F. Prosenc *"Microplastics in soil and soil-like matrices: extraction, quantification and identification"*

Session 2B - aula B (Chairs: I. Staneczko-Baranowska, A.T. Lebedev)

10:35 – 11:00 Invited lecture (IL3):

W.M. Wolf *"Environmental and chemical aspects of plant stress induced by heavy metals"*

11:00 – 11:15 Oral presentation (OP5):

F. Dal Bello ***“LC-MS analytical determination of gabapentin degradation by heterogenous photocatalysis and environment evaluation”***

11:15 – 11:30 Oral presentation (OP6):

P. Trebše ***“Photolytic and photocatalytic degradation of doxazosin in aqueous solution”***

11:30 – 11:45 Oral presentation (OP7):

J. Kašlík ***“Valorisation of Fe/Ca mining waste sludge: reactive nanocomposites for hazardous metals removal from contaminated mine water”***

11:45 – 12:00 Oral presentation (OP8):

S. Pap ***“From molecular to large-scale phosphorous recovery from wastewater using chitosan-calcite adsorbent”***

12:00 – 12:30 Coffee break/Poster session

Session 3A - aula A (Chairs: L. Mojović, W. Wolf)

12:30 – 12:45 Oral presentation (OP9):

T. Milićević ***“Non-destructive techniques (WD-XRF and magnetic measurements) for investigation of the pollution in different vineyards in Serbia”***

12:45 – 13:00 Oral presentation (OP10):

M. Kašanin-Grubin ***“Assessment of vulnerability of European forest soil in mountain regions to land use and climate change”***

13:00 – 13:15 Oral presentation (OP11):

D.M. Mazur ***“Organic pollutants in the snow of Franz Joseph Land. Expedition 2017”***

13:15 – 13:30 Oral presentation (OP12):

A.T. Lebedev ***“Complementary techniques in the environmental GC-MS analysis”***

Session 3B - aula B (Chairs: B. Godlewska-Żyłkiewicz, M. Olazabal)

12:30 – 12:45 Oral presentation (OP13):

M. Brumovský ***“Cr(VI) removal by sulfidated nanoscale zerovalent iron: from lab-scale testing to in situ remediation”***

12:45 – 13:00 Oral presentation (OP14):

J. Oborná ***“In situ remediation by commercial sulfidation iron nanoparticles (S-nZVI) on a site heavily polluted by chloroethenes”***

13:00 – 13:15 Oral presentation (OP15):

J. Schwarzbauer ***“Organic contaminant footprints in 2011 Tohoku-Oki tsunami deposits (Northern Japan)”***

13:15 – 13:30 Oral presentation (OP16):

I. Komorowicz ***“Study On Total Arsenic And Arsenic Species In Various Matrices: Water and Freshwater Fish Samples”***

13:30 – 14:30 Lunch

14:30 – 18:00 EC1 Tour

18:00 – 20:00 Poster session

➤ **Wednesday, December 4th 2019: third day**

8.30 – 9:00 Registration

Session 4 - aula A (Chairs: A-M. Delort, B. Buszewski)

9:00 – 9:40 Plenary lecture (PL2):

S. Hellsten ***“Management and restoration of surface water bodies receiving mine waters - lessons learned from Talvivaara mine impacts in northern part of Finland”***

9:40 – 10:05 Invited lecture (IL4):

E. Bulska ***“Towards food safety via bio-stimulated increasing nutritional value of selected plants”***

10:05 – 10:35 Coffee break/Poster session

YOUNG SESSION

Session 5 - aula A (Chairs: S. Hellsten, P. Konieczka)

10:35 – 11:00 Invited lecture (IL5):

B. Kubičková ***“Natural toxins in the freshwater environment - occurrence, fate and health implications”***

11:00 – 11:15 Oral presentation (OP17):

M. Stec ***“Occurrence and spatiotemporal variability of sunscreen agents along the polish part of the Baltic Sea coast”***

11:15 – 11:30 Oral presentation (OP18):

Ž. Arciszewska ***“Method development for determination of trace amounts of Pd in seawater by SPE-ICP-MS using thiol-functionalized MCM-41 materials”***

11:30 – 11:45 Oral presentation (OP19):

H. Zind ***„Distribution of selected pharmaceutical residues and their related degradation products in different aquatic compartments”***

11:45 – 12:00 Oral presentation (OP20):

O. Matviichuk ***“Evolution of antibiotics in two French rivers and incidence of antibiotic resistance in biofilms”***

12:00 – 12:30 Coffee break/Poster session

Session 6 - aula A (Chairs: J. Schwarzbauer, P. Trebše)

12:30 – 12:45 Oral presentation (OP21):

P. Suková ***“Elimination of pharmaceuticals from aquatic environment using enzymatic apparatus of wood decaying fungi”***

12:45 – 13:00 Oral presentation (OP22):

M. Madej ***“Voltammetric determination of antidepressant drug citalopram in water samples”***

13:00 – 13:15 Oral presentation (OP23):

B. Kaur ***“A comparative study of Losartan photodegradation: activated persulfate versus hydrogen peroxide”***

13:15 – 13:30 Oral presentation (OP24):

A. Kravchenko ***“Permanent coatings based on imidazolium cations in the separation of biological active analytes by capillary electrophoresis”***

13:30 – 14:30 Lunch

Session 7 - aula A (Chairs: B. Kubičková, S. Garboś)

14:30 – 14:45 Sponsor presentation (SP1):

G. Przeliorz ***“Instruments for environmental research in the offer of the COMEF company”***

14:45 – 15:00 Oral presentation (OP25):

J. Salvé ***“Chitosan-clay materials for drinking water production: stability improvement and reactivity towards dissolved organic matter”***

15:00 – 15:15 Oral presentation (OP26):

P. Cheng ***“Decatungstate, $W_{10}O_{32}^{4-}$, as a photocatalyst for the simultaneous oxidation of organic pollutants and reduction of Fe^{3+} and/or H_2O_2 ”***

15:15 – 15.30 Oral presentation (OP27):

F. Rocha ***“Nutrient content, heavy metals, microorganisms and organic pollutants in Portuguese sewage sludge - a country level analysis”***

15:30 – 15:45 Oral presentation (OP28):

Y. Arbid ***“Development of an experimental system to measure air depollution performance of green roofs”***

15:45 – 16:00 Coffee break/Poster session

Session 8 - aula A (Chairs: N. Fiol, R. Michalski)

16:00 – 16:15 Oral presentation (OP29):

A. Marion ***“Nitrous acid (HONO) formation on corn leaves by reduction of nitrogen dioxide (NO_2)”***

16:15 – 16:30 Oral presentation (OP30):

P. Irizar ***“Design of epoxy-silica hybrids based on environment-friendly cycloaliphatic diol compounds for potential application as stone conservation materials”***

16:30 – 16:45 Oral presentation (OP31):

B. Rogalewicz ***“Impact of medical use on composition of two carbon dioxide absorbents used in anaesthesiology. Research on kinetics of carbon dioxide absorption under specific conditions”***

16:45 – 17:00 Oral presentation (OP32):

M. Przydacz ***“Does polymorphic form of TiO₂ influence the HMF hydrogenation course?”***

17:00 – 17:10 Sponsor presentation (SP2):

J. Grodowski ***“Instruments for environmental research in the offer of the Intertech Poland company”***

17:10 – 17:30 Coffee break/Poster session

Session 9 - aula A (Chairs: B. Krasnodębska-Ostręga, K. Rosentrater)

17:30 – 17:45 Oral presentation (OP33):

T. Soleymani-Angili ***“Environmental life cycle analysis of corn ethanol under different scenarios for the valorisation of whole stillage”***

17:45 – 18:00 Oral presentation (OP34):

D. Polikarpova ***“Nano-sized ion exchangers for electrophoretic separation of charged analytes”***

18:00 – 18:15 Oral presentation (OP35):

N.P.F. Gonçalves ***“Comparative study of persulfate and hydrogen peroxide activation by humic acid coated magnetic materials for BPA degradation: A life cycle assessment evaluation”***

20:00 – 24:00 Gala dinner at Browar Księży Młyn

➤ **Thursday, December 5th 2019: fourth day**

Session 10 - aula A (Chairs: D. Barałkiewicz, I. Zbiciński)

9:00 – 9:40 Plenary lecture (PL3):

K. Rosentrater ***“Using life cycle assessment to better understand environmental impacts of bioprocessing systems”***

9:40 – 10:05 Invited lecture (IL6):

L. Mojović ***“Bioprocessing agro-industrial residues into value added products”***

10:05 – 10:35 Coffee break/ACE General Assembly

Session 11 - aula A (Chairs: I. Witońska, A. Parczewski)

10:35 – 11:00 Invited lecture (IL7):

J. Igras ***“Smart fertilizers - reality or researcher’s fantasy?”***

11:00 – 11:25 Invited lecture (IL8):

B. Godlewska-Żyłkiewicz ***“Nanomaterials - environmental risks and speciation analysis of metal nanoparticles in environmental samples”***

11:25 – 11:50 Invited lecture (IL9):

B. Krasnodębska-Ostręga ***“Sampling and sample pretreatment as a critical point of environmental analysis of water - total and species analysis”***

11:50 – 12:30 Coffee break

Session 12 - aula A (Chairs: J. Kałużna-Czaplińska, O. Đuragić)

12:30 – 12:45 Oral presentation (OP36):

K. Czarny ***“Molecularly imprinted polymer film grafted from porous silica for efficient enrichment of steroid hormones in water samples”***

12:45 – 13:00 Oral presentation (OP37):

A.-M. Delort ***“Biodegradation of phenol and catechol by cloud microorganisms. Comparison with radical chemistry”***

13:00 – 13:15 Oral presentation (OP38):

A. Krejčova ***“Assessment of risks perception associated with the use of tattoo inks”***

13:15 – 13:30 Oral presentation (OP39):

K. Taran ***“An Innovative Dilemma Of Interplay Between Cancer ‘In Vivo’ Cells And Their Environment In Macro And The Atomic Scale”***

13:30 – 14:30 Lunch

Session 13 - aula A (Chairs: V. Beskoski, P. Mierczyński)

14:30 – 14:55 Invited lecture (IL10):

M. Konkol ***“Supercritical CO₂ extraction - green waste-free technology”***

14:55 – 15:20 Invited lecture (IL11):

R. Michalski ***“Applications of ion chromatography for the determination of carboxylic acids in biomass combustion products”***

15:20 – 16:00 Coffee break

Session 14 - aula A (Chairs: A. Czyilkowska, A. Astel)

16:00 – 16:15 Oral presentation (OP40):

J. Rogowski ***“Synthesis and characterization of SiC-based composites prepared from plant material”***

16:15 – 16:30 Oral presentation (OP41):

C. Escudero-Oñate ***“Removal of quaternary ammonium-based corrosion inhibitors from produced water and seawater: photodegradation and bioremoval”***

16:30 – 17:30 Award ceremony. Closing session