

Earth in a Trap?
International Scientific Conference

Conference Programme

Wednesday

May 23rd, 2018

10:00 – 12:00	Registration
12:00 – 13:30	Lunch
14:00 – 14:30	Opening ceremony
14:30 – 15:30	Plenary section
15:30 – 15:45	Coffee break
15:45 – 17:05	Section I
19:00	Dinner
20:00	Concert of the country group Pacipacifik (Hotel Terrace)

Opening ceremony

14:00 – 14:30

prof. František Kačík, Ph. D. – Guarantee of the conference

prof. Ján Sedliačik, Ph. D. – Dean of Faculty of Wood Science and Technology

assoc. prof. Marián Schwarz, Ph. D. – Dean of Faculty of Ecology and
Environmental Science

Plenary section:

Chairmen: prof. Magdaléna Bálintová, Ph. D.
 prof. Danica Kačíková, Ph. D.

14:30 – 15: 00

Adriana Ešťoková: **Thermal analysis as a useful analytical tool in environmental and civil engineering**

presented by: prof. Adriana Ešťoková, Ph. D., Technical University of Košice, Faculty of Civil Engineering

15:00 – 15:30

Veronika Veľková: **Application of gas chromatography with mass spectrometry detection in fire and environmental engineering**

presented by: Veronika Veľková, Ph. D., Faculty of Wood Sciences and Technology, Technical University in Zvolen

15:30 – 15:45 Coffee break

Section I:

Chairmen: Dr. habil Tamás Rétfalvi
 prof. František Kačík, Ph. D.

15:45 – 16:05

Michal Jablonský, Aleš Ház, Jozef Jablonský, Nikola Chupacová: **Environmentally Sustainable Access: Research Developments with a Focus on Softwood Bark Waste/By-products**

presented by: assoc. prof. Michal Jablonský, Ph. D., Institute of Natural and Synthetic Polymers, Slovak University of Technology, Bratislava

16:05 – 16:25

Andrea Majlingová, Danica Kačíková, Qiang Xu, Cong Jin: **Current trends in flame-retardant treatment of selected polymers**

presented by: assoc. prof. Andrea Majlingová, Ph. D., Faculty of Wood Sciences and Technology, Technical University in Zvolen

16:25 – 16:45

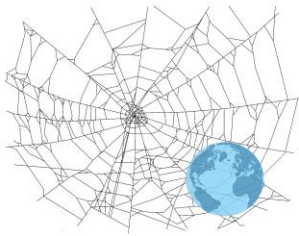
Aleš Ház, Michal Jablonský, Anton Lisý: **Compositions of volatile organic compounds emitted from natural and synthetic polymers**

presented by: Aleš Ház, Ph. D., Institute of Natural and Synthetic Polymers, Slovak University of Technology, Bratislava

16:45 – 17:05

Eva Výbohová, Veronika Veľková: **Study of thermal degradation of selected materials using ATR-FTIR spectroscopy**

presented by: Eva Výbohová, Ph. D., Faculty of Wood Sciences and Technology, Technical University in Zvolen



Conference Programme

Thursday

May 24th, 2018

08:30 – 09:50	Section II
09:50 – 10:15	Coffee break
10:15 – 12:00	Presentation of mobile measurement and analytical equipment
12:15 – 13:30	Lunch
14:00 – 15:30	Presentation of analytical methods used for fire investigation
15:30 – 15:45	Coffee break
15:45 – 17:00	Section III
18:00 – 19:30	Dinner

Section II:

Chairmen: prof. Adriana Eštoková, Ph. D.
 assoc. prof. Iveta Čabalová, Ph. D.

08:30 – 08:50

Magdaléna Bálintová, Štefan Demčák: **The influence of modification of spruce wooden sawdust on heavy metal absorption**

presented by: prof. Magdaléna Bálintová, Ph. D., Technical University of Košice, Faculty of Civil Engineering

08:50 – 09:10

Jana Oravcová, Martin Dráb, Hana Ollerová, František Kačík: **Testing of Alginite as a sorbent of heavy metals from soil and above – ground biomass of plants**

presented by: Jana Oravcová, Faculty of Wood Sciences and Technology, Technical University in Zvolen

09:10 – 09:30

Fabrizio Jakubec: Výhody techniky AJ ICP a AJ ICP MS pri stanovení ťažkých kovov

presented by: Fabricio Jakubec, AMEDIS, spol. s r. o., Piešťany

09:30 – 09:50

Vladimír Lalík: Mobilné emisné laboratórium SIŽP – metódy merania a postup emisného merania

presented by: Vladimír Lalík, Ph. D., Slovak Environmental Inspectorate

09:50 – 10:15 Coffee break

Presentation of mobile measurement and analytical equipments:

10:15 – 12:00

Mobilné laboratórium KCHL CO/Mobile laboratory KCHL CO

Kontrolné chemické laboratóriá Civilnej ochrany Slovenská Ľupča/Control chemical laboratory of Civil Protection Slovenská Ľupča

Mobilné emisné laboratórium SIŽP/Mobile emission laboratory SEI

Slovenská inšpekcia životného prostredia Banská Bystrica/Slovak Environmental Inspectorate Banská Bystrica

Mercedes Benz Atego EKOS – hasičský automobil určený na ekologické zásahy/fire engine aimed to ecological accidents coping

Okresné riaditeľstvo Hasičského a záchranného zboru Banská Bystrica/Fire and Rescue Service, Department Banská Bystrica

The place of presentation: Parking Place at the Lake

Presentation of analytical methods used for fire investigation:

14:00 – 14:45

Miroslav Pánik: **Chemická analýza požiarňých vzoriek na KEÚ PZ**

presented by: Miroslav Pánik, OPSaKI Slovenská Ľupča KEÚ PZ

*The place of presentation: **Hotel Congress Room***

15:00 – 15:30

Demonštrácia vyhľadávania vzoriek horľavín v požiarňých zvyškoch/The demonstration of the combustible matter location in the fire residues

Okresné riaditeľstvo Policajného zboru Banská Bystrica/Police Force, Department Banská Bystrica

*The place of presentation: **Hotel Parking Place***

15:30 – 15:45 Coffee break

Section III:

Chairmen: assoc. prof. Linda Makovická Osvaldová, Ph. D.

prof. Dagmar Samešová, Ph. D.

15:45 – 16:05

Jozef Salva, Miroslav Vanek, Marián Schwarz, Miroslav Dado: **Emission Modelling of Exhaust Gases from Typical Parking House Operation**

presented by: Jozef Salva, Faculty of Ecology and Environmental Science, Technical University in Zvolen

16:05 – 16:25

Martin Šístek: **Moderní analytická technika**

presented by: Martin Šístek, OK Servis BioPro, s. r. o., Praha

16:25 – 16:45

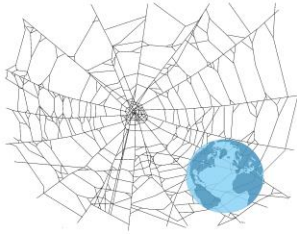
Miroslava Vandlíčková: **METAL flammable dust as dangerous substances**

presented by: Miroslava Vandlíčková, Ph. D., Faculty of Security Engineering, University of Žilina

16:45 – 17:05

Nikoleta Szirmaiová, Danica Kačíková, Martin Lieskovský: **Comparison of the Gross Caloric Value of the Selected Wood Species**

presented by: Nikoleta Szirmaiová, Faculty of Wood Sciences and Technology, Technical University in Zvolen



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Friday

May 25th, 2018

09:00 – 10:20	Section IV
10:20 – 10:30	Coffee break
10:30 – 11:30	Section V
11:30 – 12:00	Closing ceremony
12:00 – 13:00	Lunch

Section IV:

Chairmen: assoc. prof. Michal Jablonský, Ph. D.
 Eva Výbohová, Ph. D.

09:00 – 09:20

Juraj Jancík, Linda Makovická Osvaldová: **Effect of aging on reaction-to-fire of fibreboards**

presented by: assoc. prof. Linda Makovická Osvaldová, Ph. D., Faculty of Security Engineering, University of Žilina

09:20 – 09:40

Katarína Dúbravská, Jaroslava Štefková: **The impact of the exterior wall surface finish on the separation distance**

presented by: Katarína Dúbravská, Ph. D., Faculty of Wood Sciences and Technology, Technical University in Zvolen

09:40 – 10:00

Iveta Mitterová, Václav Kasan: **Evaluation of the TETRA K board for the fire protection and safety needs**

*presented by: **Iveta Mitterová, Ph. D.**, Faculty of Wood Sciences and Technology, Technical University in Zvolen*

10:00 – 10:20

Prezentácia firmy Hermes LabSystems, s. r. o. Bratislava

10:20 – 10:30 Coffee break

Section V

Chairmen: assoc. prof. Andrea Majlingová, Ph. D.
 Martin Zachar, Ph. D.

10:30 – 10:50

Ivan Chromek, Richard Hnilica, Michaela Hnilicová, Jaroslav Matej, Valéria Messingerová: **Input factor analysis for the use of special LKT for the transport of water to a forest fire area**

*presented by: **Ivan Chromek, Ph. D.**, Faculty of Wood Sciences and Technology, Technical University in Zvolen*

10:50 – 11:10

Rastislav Veľas, Andrea Majlingová, Danica Kačíková: **Study of forest fire behaviour under the meteorological conditions changed**

*presented by: **Rastislav Veľas**, Faculty of Wood Sciences and Technology, Technical University in Zvolen*

11:10 – 11:30

Martin Bednár, Tatiana Bubeníková, Danica Kačíková, František Kačík: **Changes of expanded polystyrenes macromolecular characteristics at thermal degradation**

*presented by: **Martin Bednár**, Faculty of Wood Sciences and Technology, Technical University in Zvolen*

11:30 – 11:50

Ludmila Tereňová, Emília Orémusová: Reaction to fire of facade heat insulating materials

*presented by: **Ludmila Tereňová, Ph. D.**, Faculty of Wood Sciences and Technology, Technical University in Zvolen*

11:50 – 12:00 Closing ceremony

Poster presentation:

1. Iveta Coneva: **Examination of Fuels of Selected Cellulose Materials on the Basis of Determination the Flash Point Ignition Temperature and Self-ignition Temperature**
2. Tamás Rétfalvi, Ferenc Lakatos, Piroska Szabó, Zoltán Kovács: **Preliminary results of “Environmental biomonitoring by bees” network at University of Sopron**
3. Andrea Vityi, Nóra Kiss Szigeti, Tamás Rétfalvi, Emes Dominkó, Bohdan Lojka, Radim Kotrba, Jaroslav Jankovič, Michal Pástor, Robert Borek: **Agroforestry as a tool for sustainable land use in Central European countries**
4. Juraj Poništ, Dagmar Samešová: **Assessment of biological degradability of agricultural substrates**
5. Ivana Knapcová, Dagmar Samešová: **Assessment of possible environmental risks of old dumps**

Panels and the necessary material will be available for posters. We ask the authors post the posters during the first Coffee break on Wednesday at the latest. The poster discussion is possible with the authors during the coffee breaks or during the evenings.