**November 7th 2018**

**14:00 – 16:00 Welcome reception, registration: Lviv State University of Life Safety**

**16:30 – 16:40 Opening ceremony of FESE 2018**

**Session I. Oral presentation (16:40 – 18:40)**

**Co-chairman: Małgorzata Majder-Łopatka, Starodub Yuriy**

16:40 – 17:00 *Havrys A., Starodub Y.:* Conceptual model of portfolio management project for territories protection against flooding

17:00 – 17:20 *Yemelyanenko S., Rudyk Y., Kuzyk A., Yakovchuk R.:* Geoinformational system of rescue services

17:20 – 17:40 *Tryhuba A., Ratushny R., Bashynsky O., Shcherbachenko O.:* Identification of firefighting system configuration of rural settlements

17:40 – 18:00 *Lusch V., Loik V., Lazarenko O., Majder-Łopatka M.:* Determination of training conditions of firefighters in mobile training complexes

18:00 – 18:20 ***Gold Sponsor*** *– Władysław Radzik – President of the company Ślusarstwo*

18:20 – 18:40 *Ivanusa A.:* Project of forming «culture and safety» of the airport

**Poster session I (16:00 – 19:00)**

**Co-chairman: Dmytro Voitovych, Andrzej Mizerski**

1. *Binio J., Kieliszek S.*: Analysis of the use for Fire Protection Water Supply Systems in public utility buildings and residential buildings
2. *Fliszkiewicz M., Kreński K.*: Numerical analysis on smoke and heat control system and sprinkler system in covered car parks
3. *Gałaj J., Drzymała T.*: Assessment of extinguishing efficiency of hybrid system using water mist and inert gas during class A fires
4. *Gałaj J., Piątek P.*: Analysis of the influence of the spraying angle on the distribution of sprinkling intensity by a selected Turbo water nozzle
5. *Gancarczyk D., Sobolewski M., Książek P.*: Efficiency of sorbents used to restore the grip of the surface of the oily road
6. *Jakubiec J., Sobolewski M., Król B., Gancarczyk D.*: Proportioning accuracy of foam concentrate testing in periodic control of foam fixed extinguishing systems
7. *Łapicz M., Makowski R., Jedrzejas J.:* Increased effectiveness of firefighting during internal fires with the use of positive pressure attack
8. *Majder Łopatka M.:* Effects of interfering gases in electrochemical sensors NH3 and NO2
9. *Matuszkiewicz R.:* Statistical analysis of State Fire Service intervention during chemical, radiation and biological hazards
10. *Piec, R., Cisek M., Ciszewski K.:* Evacuation of people to a medium-high public buildings
11. *Polańczyk A., Ciuka-Witrylak M., Synelnikov O., Loik V.:* Analysis of sorption of vehicle liquids with sand that appear after car accidents reproduced in laboratory scale
12. *Ptak Sz.:* The course of electrostatic spark discharge in the context of explosion safety
13. *Rakowska J.:* Best practices for selection and application o firefighting foam
14. *Rybiński J., Szajewska A.:* Determination of fire parameters in a passenger car fire test using thermovision
15. *Szajewska A.:* Classification of a burnt area based on spectral images
16. *Tuśnio N.:* Applications for mobile devices informing about threats
17. *Walczak A., Naworol I., Pieniak D., Posierbiewicz K., Wąsik W.:* Experimental studies of changes in mechanical properties of polymer composites under impact of thermal load determined based on compression testing

**19:30 – Official dinner Restaurant: Pysanka**

**November 8th 2018**

**Session II. Oral presentation (9:30 – 11:40)**

**Co-chairman: Andrzej Polańczyk, Borys Mykhalichko**

9:00 – 9:20 *Popovych V., Stepova K., Prydatko O.*: Environmental hazard of Novoyavorivsk municipal landfill

9:20 – 9:40 *Vaselivskyy R., Starodub Y., Vasylenko O.:* Simulation of process with a heat transfer in multilayer structure X and correcting structure

9:40 – 10:00 *Yakovchuk R., Semerak M., Pozdeev S., Nekora O., Sviatkevych O.:* Mathematical modeling of a thermal fire effect on tanks with oil products

10:00 – 10:20 *Boroń S., Wdowiak T.:* Numerical representation of extinguishing gas discharge process

10:20 – 10:40 *Woliński M.:* Industry 4.0 and explosion prevention

10:40 – 11:00 *Krasuski A., Pecio M.:* Application of an Integrated Risk Assessment Software to Quantify the Life Safety Risk in Building during a Fire

11:00 – 11:20 ***Bronze Sponsor*** *– Kamil Marjanek – President of the company Foamax*

11:20 – 11:40 *Mizerski A.:* Wetting properties of aqueous short-chain alcohols’ solutions

**Poster session II (9:00 – 12:00)**

**Co-chairman: Andriy Havrys, Marek Woliński**

1. *Adamkiewicz Ł., Gayer A.,, Mucha D., Badyda A.:* Air quality health indices – review
2. *Dmochowska A.:* Hazards associated with municipal waste storage. Vol. II
3. *Dmochowska A.:* Hazards associated with municipal waste storage. Vol. I
4. *Janoszka K., Klyta J., Laks Ł., Słaby K.:* The use of polycyclic aromatic hydrocarbons molecular diagnostic ratios as a source identification tool – case study
5. *Kamocka-Bronisz R.:* Tensile strength analysis of aramid fabric of firefighter’s clothing after accelerated aging and abrasion
6. *Kmiecik K.:* Finite element analysis of heat flow within timber members exposed to fire
7. *Krasuski A., Kuziora Ł.:* Comparison of Risk Categorization Methods in a Multisimulation Framework
8. *Krauze A.:* The application of CFD software in the explosive hazardous area classification
9. *Kuskowska K., Rogula-Kozłowska W.:* Seasonal variation in health exposure to PM-bound Polycyclic Aromatic Hydrocarbons in selected sport facility
10. *Marciniak A.:* Analysis of the influence of the heating process on the charring depth of wooden elements
11. *Mierzwiński D., Łach M., Korniejenko K., Mikuła J.:* Geopolymer foam as a Passive Fire Protection
12. *Mierzwiński D., Łach M., Korniejenko K., Stanek A., Mikuła J.:* The behavior of Alkali Activated Materials based on calcium clay at elevated temperatures
13. *Parzych S., Dziurka R., Gucwa M.:* Determining the causes of failure of the distillation column for the esterification of n-butanol with acetic acid
14. *Parzych S., Dziurka R., Gucwa M.:* Influence of post weld heat treatment for weld joint P355GH
15. *Rakowska J., Kuskowska K., Rogula-Kozłowska W.:* Inhalation exposure to particulate matter in a work environment of firefighters
16. *Salamonowicz Z.:* Numerical simulation of dispersion of ammonia in industry space using the ANSYS
17. *Wąsik W., Walczak A.:* The impact of fog nozzle type on the distribution of mass spray density

**11:40 – 12:30 – Cafe break**

**Session III. Oral presentation (12:30 – 14:30)**

**Co-chairman: Vasyl Kovalyshyn, Adam Krasuski**

12:30 – 12:50 ***Platinum Sponsor*** *– Ryszard Grosset – DJ Chem Chemicals Poland S.A.*

12:50 – 13:10 *Makovicka Osvaldova L.:* Burning rate of selected central European hardwood tree species

13:10 – 13:30 *Kmiecik K.:* The influence of the fire source location on the load-bearing capacity of timber beam exposed to fire

13:30 – 13:50 *Powęzka A., Banaś M., Ogrodnik P.:* Checking the compatibility of embedded concrete for the production of prefabricated freight scales with the parameters declared by the supplier

13:50 – 14:10 *Polańczyk A.:* The usefulness of Gram staining method for analysis of the effectiveness of decontamination of firefighter’s protective outfit

14:10 – 14:30 *Gayer A., Mucha D., Adamkiewicz Ł., Badyda A.:* Children exposure to PM2.5 in kindergarten classrooms equipped with air purifiers – a pilot study

**Poster session III (12:00 – 14:45)**

**Co-chairman: Agata Walczak, Volodymyr Tovarianskyi**

1. *Boroń S., Kubica P.:* Modeling of the process of the extinguishing gas concentration changes in the protected compartment
2. *Jarosz W., Kowalczyk P., Marciniak A.:* The determination of basic firefighters rescue operations of key practical importance
3. *Kozielska B.:* Health hazards from polycyclic aromatic hydrocarbons bound to submicrometer particles in Gliwice (Poland)
4. *Kreński K., Fliszkiewicz M.:* AAmks: the platform for assessing fire safety of humans in buildings
5. *Król B., Konecki M., Klakus M.:* The use of a cone calorimeter for the preliminary determination of the extinguishing efficiency of bulk materials
6. *Kukfisz B.:* Analysis of minimum ignition temperature of pellet dust layer and cloud due to adding BC and ABC ire extinguishing powder
7. *Kukfisz B.:* Flammability parameters of sprayed and foam aerosols selected for studies
8. *Półka M.:* Analysis of susceptibility of inflammable tobacco products dust to ignition from a heated surface
9. *Półka M.:* Analysis of susceptibility of peat on its spontanous heating and self-ignition properties
10. *Rogula-Kopiec P., Nocoń K. Pastuszka J.S.:* Metals and their water-soluble fractions in selected beauty salons
11. *Salamonowicz Z., Matuszkiewicz R., Ciuka Witrylak M., Kosiorek M., Biedugnis S.:* The effectiveness of selected decontamination techniques in the process of decontamination of chemical protection suits used by chemical rescue units in Fire Service
12. *Sienkiewicz-Jarosz H., Konopko M., Jarosz W., Bienkowski P.:* Work-related factors and depressive symptoms in firefighters – preliminary data
13. *Szuszkiewicz M.M., Łukasik A., Magiera T., Szuszkiewicz M.:* Technogenic magnetic particles of topsoil from different sources of emission – A case study from Upper Silesian conurbation, Poland
14. *Umbetkulov Y., Yeleukulov Y., Atalykova A., Smailova G., Iskakova G., Zhauyt A., Gulama-Garip Alisher Ibrayev:* Dynamic force analysis of a six-link planar mechanism
15. *Wdowiak T., Kubica P.:* The use of multisimulation in determining fire hazards in buildings covered by expertise
16. *Zubek Ł., Sobolewski M.:* The effect of selected inhibitors on the characteristics of wood dust explosion

**14:30 – 15:30 – Lunch**

**15:50 – 16:00 – Closing ceremony of FESE 2018**

***Sponsors***



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**Brig Gen. Paweł Kępka**

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Poland



***Fire and Environmental Safety Engineering 2018***

***(FESE 2018)***



***Lviv, 7-8 November 2018***