

International Scientific Conference on Fire Engineering and Disaster Management 2021

Chair of the conference: **Gyula Vass**

Co-chairs of the conference: **Ágoston Restás + Qiang Xu + Alexandru Ozunu + György Heizler**

	A Fire engineering	B Fire protection	C Firefighting and rescue operation management	D Disaster management	E Safety and security
1.					
Chair	Gyula Vass	Zoltan Rajnai	Andrea Majlingova	Ozunu Alexandru	Alexander Fekete
Co-chair	Ágoston Restás	Ferenc Kanyó	Péter Pántya	Árpád Muhoray	Péter Ruzsonyi
Author + Pres 1.	Xu, Q.: <i>Evaluate the Flammability and Fire Behavior of Wood of Ancient Buildings</i>	Tóth-Pataki, Zs., Szép, J., Kerekes, Zs., Restás, Á.: <i>Role of radiation heat in the thermodynamic classification of polystyrene thermal insulators</i>	Stocker, B-Bodnár, L.: <i>Shortcomings in cooperation during the marching of the fire engine</i>	Árpád Muhoray: <i>20 years of Hungarian Disaster Management</i>	Ambrusz, J-Kiss, A.: <i>Scientific research difficulties of post-earthquake rehabilitations</i>
Author + Pres 2.	Hajdu, F., László, G., Kerekes, Zs., Csápaiová, N., Kuti, R.: <i>Examination of fire spread in simulation environment</i>	Szalai, M.: <i>Danger of dust explosion and importance of testing for explosive dusts</i>	Huszka, ZS – Rácz, S.: <i>Presentation of occupational safety solutions against hazards during the firefighting</i>	Török Z,-Ozunu A-Malos, C-Radovici, A.: <i>Natech Risk at Romanian Seveso establishments and industrial parks</i>	Piwowski, J.: <i>Security environment – theoretical model in Polish security sciences</i>
Author + Pres 3.	Kopcsékó, K.: <i>The vulnerability of Portland cement, the advantage of geopolimer.</i>	Hlavicka, V.: <i>Cracks in normal strength concrete and mortar subjected to elevated temperatures</i>	Bodnár, L.: <i>Physical load test of firefighters based on the carried overload</i>	Almási Cs,-Vass, Gy-Kátai-Urbán, L.: <i>Transport of materials belonging to ADR Class 3 with agricultural tractor in Hungary</i>	Hornyacsek, J., Kovács, G.: <i>Application possibilities of Augmented Reality and Virtual Reality in the training of defense professionals</i>
Author + Pres 4.	Nagysolymos, Á., Kopcsékó, K., Kerekes, Zs. Restás, Á.: <i>Structural changes of fiber-reinforced composite plastics under the influence of heat</i>	Makovická Osvaldová, L.: <i>Determination of selected fuel values of wood in case of forest fire in an area of natural disaster</i>	Kersák J ZS: - Pántya, P.: <i>Technical development opportunity in the field of practical training in rescue fire protection</i>	Monosi, M-Flachbart J.: <i>Drone application in extreme conditions</i>	Serfőző, K - Pátzay Gy - Dobor J.: <i>Disaster management representation and summary of the most important elements, controllers, systems and devices required for the operational safety of a fictitious hazardous plant</i>
2.					
Chair	Xu Qiang	Anthony Gall	Danica Kacikova	Tomasz Zweglinski	Julius Piwowarski
Co-chair	Zsuzsanna Kerekes	László Bérczi	Sándor Rácz	Lajos Kátai-Urbán	Gábor Kovács
Author + Pres 1.	Nagy B - Érces G - Hortobágyi - Hesz J.: <i>Evaluation of BIM-based workflows in fire safety engineering</i>	Raffai-Horváth <i>Examination of the transport</i>	Patricio Sanhueza: <i>Issues about the wildfire situation in Chile</i>	Petrányi, J- Zsitnyányi A-Vass Gy-Kátai-Urbán L.: <i>New capabilities in the Hungarian Radiation Early Warning and Monitoring System</i>	Barina, B-Dobor, J.: <i>Characterization, use and hazards of chemicals with dangerous properties that may occur in nuclear power plants</i>

Author + Pres 2.	Érces N.,-Kajtár, L: <i>The impact of a conventional operated biomass boiler on the environment</i>	Ragács, N., Kerekes, Zs., Szép, J., Restás, Á.: <i>Effect of Thermodynamic Behavior of Isolation Materials on smoke generation.</i>	Gál, L., Rácz, S.: <i>Presence of Factors Influencing a Decision Based on Signals of the Fire Alarm System</i>	Alhosban, A-Bodnár,L: <i>The Adopted Approach to the disaster management of Covid-19 Pandemic in Jordan /role of the National Center for Security and Crisis Management (NCSCM)</i>	Kiss, N-Dobor, J: <i>Summary, characterization, potential hazards of radioactive isotopes, which are most often used in industry and healthcare</i>
Author + Pres 3,	Restás, Á., Lucza, E., Szép J., Kerekes, Zs.: <i>Reuse of Polyethylene Waste as Building Material in view of Fire Protection</i>	Gyapjas, J., Bérczi, L.: <i>Heat and smoke extraction from the point of view of the fire protection authority, in terms of with obtaining occupancy permit</i>	Bánhegyi R-Rácz S: <i>Firefighting in case of solar panels</i>	Nemes, D.: <i>Case Study of Drone Applications Supporting Preventive Flood Management in the Rakaca Water Reservoir</i>	Kiss, A-Varga, O-Bekő, L: <i>Detection of post-earthquake building damages in Zagreb based on Sentinel-1 radar data</i>
Author + Pres 4.	Das,O-Restás,Á-Försth, M-Sas, G-Hedenqvist M: <i>Naturally-occurring Bromophenol to develop fire retardant gluten bioplastics</i>	Komlai, K., Restás. Á., Kerekes, Zs.: <i>Fire Resistance Thermodynamic Test of Self-supporting Double Skin Metal Faced Sandwich Panels</i>	Rekeny, M., Restás, Á.: <i>Comparative Effectiveness Analysis of Fire Engines Focusing on Forest Fires</i>	Shwababa, S.: <i>Enhancing Disaster Preparedness in the midst of the Covid -19 Pandemic</i>	Patai G- Rácz S: <i>Accidents in case of prison transport at penal institutions from the perspective of firefighters.</i>
3.					
Chair	Katalin Nagy	Linda Makovicka Osvaldova	Siviwe Shwababa	Zoltán Török	Belle Johannes
Co-chair	Éva Lubloy	Lajos Takács	László Bodnár	József Ambrusz	Alice Ncube
Author + Pres 1.	Veresné Rauscher, J: <i>Evacuation scenarios and repeated runs for evacuation simulations.</i>	Debreceni, P: <i>Review of National Forest Fire Prevention System In Hungary Innovative Strategies for Fire Prevention</i>	Kós, Gy: <i>Rapid Fire Progress (RFP)</i>	H. Horváth, L. Kátai-Urbán, Gy. Vass: <i>Investigation of fire safety aspects of dangerous goods shipments</i>	Berta, K: <i>Involvement of animal rescue organizations in disasters.</i>
Author + Pres 2.	Vass, Gy-Érces- G-Rácz, S: <i>Fire protection in smart cities</i>	P. Tóth, P. Pántya: <i>The role of ÉMI LLC. in Hungarian fire protection</i>	Farkas J: <i>Coping strategies of firefighters</i>	Kirovne Rácz, R.: <i>The Correlation of Climate Change and the Disasters due to Precipitation in Hungary</i>	I. Gabrielawicz, P. Krupa, P. Pántya: <i>Safety management in terms of the level of safety culture in uniformed services</i>
Author + Pres 3,	Nagy, K.: <i>How Different Kinds of Built-in Fire Prevention Equipment Work Together</i>	Rhoda Mensah: <i>Advances in Assessment Methods for Fire Safety</i>	Muchiri, B. W.: <i>Fire Investigation and Response in Muranga County, Kenya: Success and Challenges</i>	Castro, B: <i>Challenges of the disaster management in Chile</i>	Tandlich, R: <i>A Brief Introduction to TIEMS International Certification - TQC</i>
Author + Pres 4.	Xu, J.: <i>Tree Seed Fibers Flammability Analysis by MCC and TGA</i>	P. Pántya: <i>Issues of energy sources in the field of Fire Protection.</i>	Igaz-Danszky, T-Hesz, J: <i>Development of Operation Control at Hungarian Disaster Management.</i>	Kirovne Rácz, R.: <i>Drought and Desertification as a Disaster</i>	Petretei D: <i>Victim identification after the Hableány disaster</i>

4						
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Co-chair	Gergő Érces	József Hesz	Rajmund Kuti	Galina Horváth	Maciej Wędrychowicz	
Author + Pres 1.	Gyapjas, J. Haris, R.: <i>Fire Safety in building construction</i>	P. Pantya: <i>Basics of the fire protection of alternative energy sources</i>	Urszuly, R: <i>Extinguishing fires from solar systems</i>	Szűcs-Vásárhelyi, N-Dobor, J-Pátzay, Gy: <i>Demonstration of hazardous soil contaminants from a disaster management perspective</i>	M. Laban, V. Milanko, V. Radonjanin, S. Draganić: <i>Knowledge FOR Resilient SoCiety</i>	
Author + Pres 2.	Péter Tóth: <i>New Hungarian standard for testing facade fire propagation</i>	Király, L. Restás, Á.: <i>Examination of ATEX rule changes in Hungary.</i>	Fekete, A-Pántya P: <i>Fire, multi-risk and technical rescue needs in Germany and Hungary. Organizational differences and similarities</i>	Kátai-Urbán, L-Cimer, Zs-Berger, Á: <i>Remediation board versus protective ring</i>	S. Shariphanov, T. Shahuov, Assan Zhaulybayev: <i>The composition of the human capacity flow and Mosque for safety assessment of escape</i>	
Author + Pres 3,	Svetlík, J – Makovická Osvaldová, L: <i>Temperature on car doors exposed to fire – pre-test.</i>	Ragács, N-Kerekes, Zs-Restás, Á: <i>Thermodynamic behavior of isolation materials exposed to radiation heat</i>	P. Pántya: <i>Extra load and limitations by the PPE's on the members of the Fire Protection</i>	Ncube, A., JJ. Ndovella: <i>Resilience mechanisms displayed by informal settlement dwellers towards shack fires in South Africa</i>	L. Manga, L. KÁTAI-URBÁN, J. Solymosi: <i>Radiation protection devices for nuclear emergency preparedness</i>	
Author + Pres 4.	A. Majlingova, P. Tischler: <i>Compartment Fire Modelling</i>	Nováky, M.: <i>Analysis both of the Official Fire Protection and Special Fire Protection Authorities in the System of Integrated Disaster Management</i>	R. Veszpremi – P. Pantya: <i>Fire interventions at railways</i>	Teknős, L.: <i>Analysis of evaluation of the relation between agriculture and Disaster Management</i>		

5.						
Chair		Martin Zachar	Ferenc Varga	Patryk Krupa		
Co-chair		Géza Zólyomi	László Pimper	Júlia Hornyacsek		
Author + Pres 1.		S. Ramakrishna, O. Das, A. Restas: <i>Microscale Combustion Calorimetry (MCC)</i>	Miskei, T.: <i>Intervention challenges in cases of fire and damage to electric vehicle charging stations</i>	Kátai-Urbán L., Zs. Cimer, Z. Cséplő, Gy. Vass: <i>Examination of the technical competencies required to fulfill the industrial safety responsibilities</i>		
Author + Pres 2.		L. Bérczi, D. Farkas: <i>Research on the development of the fire investigation procedures</i>	Al-Khawaldeh, I., Restás, Á.: <i>Forest Wildfire Crisis Management</i>	Hetkämper, C: <i>How to locate central service points for emergency services?</i>		
Author + Pres 3,		Mészáros, I-Kátai-Urbán, L-Cimer, Zs-Gy. Vass: <i>Hospital evacuation</i>	T. Zweglinski, P. Pántya: <i>LNG conditional scenario flow model for incidents in road transport</i>	Parrag, T-Kátai-Urbán,L-Cimer, Zs: <i>Environmental safety effects of micropollutants and microplastic</i>		
Author + Pres 4.			P. Tomka, P. Pántya: <i>Identifying Firefighters and Vehicles on the Fire ground</i>	Kugler Zs: <i>Activity of the Knowledge Centre for Water Sciences and Disaster Prevention</i>		