



ŽILINSKÁ UNIVERZITA V ŽILINE  
Fakulta bezpečnostného inžinierstva

# INVITATION

## CRISIS SITUATIONS SOLUTION IN SPECIFIC ENVIRONMENT

the 21<sup>th</sup> International Scientific Conference

25<sup>th</sup> – 26<sup>th</sup> May 2016

Žilina



Faculty of Security Engineering

University of Žilina

&

Ministry of Economy of the Slovak Republic

Department of Crisis Management



## ŽILINSKÁ UNIVERZITA V ŽILINE Fakulta bezpečnostného inžinierstva

### The scientific conference will be held under the auspice of:

dr.h.c. prof. Ing. Tatiány ČOREJOVEJ, PhD., Rector, University of Žilina

### Scientific guarantees of the conference:

- **prof. Ing. Ladislav ŠIMÁK, PhD.**
- **prof. Ing. Zdeněk DVOŘÁK, PhD.**
- **prof. Ing. Tomáš LOVEČEK, PhD**
- **prof. Ing. Anton OSVALD, CSc.**

### Scientific committee of the conference:

Chairman: **prof. Ing. Ladislav ŠIMÁK, PhD.** Fakulta bezpečnostného inžinierstva ŽU v Žiline, Slovensko

Members:

- **doc. Ing. Vilém ADAMEC, Ph.D.** – Fakulta bezpečnostného inžinierstva, VŠB-TU Ostrava, Česká republika
- **doc. Mgr. Milan ADÁMEK, Ph.D.** – Fakulta aplikovanej informatiky, Univerzita Tomáše Bati ve Zlíně, Česká republika
- **prof. Ing. Karol BALOG, PhD.** – Materiálovo technologická fakulta STU Bratislava, Slovensko
- **prof. Ing. Jurij BASKIN, DrSc.** – St. Petersburg University of State Fire Service of The Ministry of the Russian Federation for Civil Defense, Rusko
- **prof. Ing. Ľubomír BELAN, CSc.** – Fakulta bezpečnostného inžinierstva ŽU v Žiline, Slovensko
- **prof. PhDr. Ján BUZALKA, CSc.** – Akadémia policajného zboru v Bratislave, Slovensko
- **assoc. prof. Dr. Zoran ČEKEREVAC** – Union University Belgrade, Srbsko
- **prof. Dr. Vladimír CVETKOVIČ** – Faculty of Security Studies University Beograd, Srbsko
- **prof. Ing. Zdeněk DVOŘÁK, PhD.** – Fakulta bezpečnostného inžinierstva ŽU v Žiline, Slovensko
- **prof. dipl. Ing. Roberto GAMBOA, PhD** – Instituto Politécnico de Leiria, Portugalsko
- **assoc. prof. Aytekin GELERI, Ph.D.** – Turkish National Police Academy, Ankara, Turecko
- **Dr.h.c. prof. mpx.h.c. prof. Ing. Vladimír GOZORA, PhD.** – VŠEMvs v Bratislava, Slovensko
- **prof. Ing. Štefan HITTMÁR, PhD.** – Fakulta riadenia a informatiky ŽU v Žiline, Slovensko
- **JUDr. Lenka HMÍROVÁ** – sekcia krízového riadenia MV SR, Slovensko
- **prof. Ing. Ladislav HOFREITER, CSc.** – Fakulta bezpečnostného inžinierstva ŽU v Žiline, Slovensko
- **assoc. prof. Želimir KEŠETOVIČ, PhD.** – Faculty of Security Studies University Beograd, Srbsko
- **doc. Ing. Jaroslav KLEPRLÍK, Ph.D.** – Dopravná fakulta J. Pernera, UP, Česká republika
- **doc. Ing. Jozef KLUČKA, PhD.** – Fakulta bezpečnostného inžinierstva ŽU v Žiline, Slovensko
- **prof. M. Eng. Petar Kolev KOLEV, Ph.D.** – Higher School of Transport Sofia, Bulharsko
- **Ing. Zdeněk KOPECKÝ, Ph.D.** – Inštitút krízového manažmentu VŠE, Praha, Česká republika
- **doc. Ing. Bohuš LEITNER, PhD.** – Fakulta bezpečnostného inžinierstva ŽU v Žiline, Slovensko
- **doc. Ing. Tomáš LOVEČEK, PhD.** – Fakulta bezpečnostného inžinierstva ŽU v Žiline, Slovensko
- **prof. Ing. Milan MAJERNÍK, PhD.** – Strojnícka fakulta, Technická Univerzita v Košiciach, Slovensko
- **prof. Ing. Jana MÜLLEROVÁ, PhD.** – Fakulta bezpečnostného inžinierstva ŽU v Žiline, Slovensko
- **prof. Gorazd MEŠKO, Ph.D.** – University of Maribor, Slovinsko
- **dipl. Ing. Wolfgang MIHLAN** – Industrie- und Handelskammer Magdeburg, Nemecko
- **prof. MUDr. Leoš NAVRÁTIL, CSc.** – Fakulta biomedicínskeho inžinierstva, ČVUT v Prahe, Česká republika
- **prof. Ing. Anton OSVALD, CSc.** – Fakulta bezpečnostného inžinierstva ŽU v Žiline, Slovensko
- **prof. Ing. Pavel POLEDŇÁK, PhD.** – Fakulta bezpečnostného inžinierstva, VŠB Ostrava, Česká republika
- **doc. Ing. David ŘEHÁK, Ph.D.** – Fakulta bezpečnostného inžinierstva, VŠB Ostrava, Česká republika
- **doc. Ing. Jozef RISTVEJ, PhD.** – Fakulta bezpečnostného inžinierstva ŽU v Žiline, Slovensko
- **doc. Ing. Jaroslav SIVÁK, CSc.** – ALFA Security Technologies, a.s. Bratislava, Slovensko
- **prof. Ing. Vojtech JURČÁK, PhD.** – Akadémia ozbrojených síl, Liptovský Mikuláš, Slovensko
- **Ing. Aurel UGOR** – Odbor bezpečnosti a krízového riadenia MH SR, Slovensko
- **prof. Ing. Rudolf URBAN, CSc.** – Univerzita obrany, Brno, Česká republika
- **assoc. prof. Detelin Lyubomirov VASILEV, Ph.D.** – Higher School of Transport Sofia, Bulharsko
- **doc. Ing. Andrej VEĽAS, PhD.** – Fakulta bezpečnostného inžinierstva ŽU v Žiline, Slovensko
- **prof. Ing. Dušan VIČAR, CSc.** – Fakulta logistiky a krízového riadenia, UTB Uherské Hradište, Česká republika
- **prof. Yaroslav VYKLYUK, DrSc.** – Bukovinian University, Chernivtsi, Ukraina
- **prof. Bartel VAN DE WALLE, Ph.D.** – Delft University of Technology, Holandsko
- **prof. Dr. inž. Zenon ZAMIAR** – Wyższa Szkoła Oficerska Wojsk Łądowych, Wrocław, Poľsko





## ŽILINSKÁ UNIVERZITA V ŽILINE Fakulta bezpečnostného inžinierstva

**Goal of the conference:** The goal of the conference is to exchange the latest scientific findings and practical experiences of crisis management with focus on public administration and private sector, persons and property protection and tasks of human factor in crisis situations.

The conference will be focused this year on issues of economic efficiency evaluation as part of the crisis management processes and current trends in the prevention of major industrial accidents.

### Conference sections:

#### Section No.1: **General Principles of Crisis Management**

*prof. Ing. Ladislav ŠIMÁK, PhD.*

*doc. Ing. Jozef KLUČKA, PhD.*

- analysis of security environment and current risk issues and threats within today society,
- current tasks of establishment of the security system of the Slovak republic,
- crisis management tasks in the state administration and self- government,
- current problems of education and training crisis managers,
- specifics of crisis planning,
- safety as an assumption for business continuity management,
- current problems of risk management in Slovak enterprises,
- risk assessment and management in the prevention of industrial accidents and transposition of the SEVESO III. – the directive to EU member states.

#### Section No.2: **Security Management – Protection of Persons and Property**

*prof. Ing. Ladislav HOFREITER, CSc.*

*prof. Ing. Tomáš LOVEČEK, PhD.*

- principles and practices of security management,
- current trends in persons and property protection,
- systems of premises protection - projecting and evaluation
- crime prevention and methods of prevention management,
- prospects for development the sector of private security,
- status and development of security situation in Slovak republic.

#### Section No.3: **Critical Infrastructure Protection in Transportation and Energetic Sectors**

*prof. Ing. Zdeněk DVOŘÁK, PhD.*

*doc. Ing. Bohuš LEITNER, PhD.*

- modelling and simulation of critical infrastructure protection,
- actual tasks for public administration in critical infrastructure protection,
- risk management in critical infrastructure,
- specifics of risk management in transportation and energetics sectors,
- control and information systems of critical infrastructure,
- critical infrastructure elements entity protection in transportation and energetics sectors,
- dependence of other critical infrastructure sectors on transportation and energetics,
- research and education in critical infrastructure protection.

#### Section No. 4: **Fire prevention, protection and Rescue Services**

*prof. Ing. Anton OSVALD, CSc.*

*prof. Ing. Karol BALOG, PhD.*

- efficiency evaluation of fire protection measures,
- building fire safety and fire protection systems,
- chemistry of fire and suppression,
- explosion protection,
- fire-fighting and rescue work tactics and fire-fighting equipment,
- integrated rescue system,
- industrial disasters and their consequences,
- fire and disaster investigation.

### Accompanying events of conference and workshops:

- Assessment of Critical Infrastructure Physical Protection Effectivity (open workshop to project CI-PAC)
- Decision support within the complex recovery focused on communities (open workshop ISCRAM)
- Spatial distribution of fire brigades and technical equipment (Accompanying events)



# ŽILINSKÁ UNIVERZITA V ŽILINE

## Fakulta bezpečnostného inžinierstva

### Overall conference programme:

25 <sup>th</sup> May 2016	26 <sup>th</sup> May 2016
9.00 – 10.00 h Registration of participants	9.00 – 10.15 h Sessions or workshop
10.00 – 10.15 h Opening of the conference	10.15 – 10.45 h Coffee break
10.15 – 10.45 h Plenary session	10.45 – 12.00 h Sessions or workshop
10.45 – 11.00 h Coffee break	12.00 h Lunch
11.00 – 12.30 h Plenary session	
12.30 – 14.00 h Lunch	
14.00 – 15.30 h Plenary session	
15.30 – 16.00 h Coffee break	
16.00 – 18.00 h Sessions	
19.00 h Informal evening (banquet)	

**Conference languages:** & Slovak & Czech & English

### The Organizing Committee:

The conference is organized by the – Faculty of Security Engineering, University of Žilina. 1. mája 32, 010 26 Žilina, <http://www.fbi.uniza.sk>

### Secretary of the Conference:

Ing. Katarína Buganová, PhD. – the main organizer of the conference, tel.: 00421- 41- 513 6748,  
Ing. Milan Goč – logistical and financial support of the conference, tel.: 00421- 41- 513 6603  
Ing. Michal Titko, PhD. – editor of the Proceedings of the conference, tel.: 00421- 41- 513 6713

### Organizational instructions:

**Website and E- mail of conference:** <http://www.fbi.uniza.sk/kkm/>, [crisis@fbi.uniza.sk](mailto:crisis@fbi.uniza.sk), fax: 00421- 41- 513 6620,

**Place of the Conference:** The University of Žilina, Slovakia, Žilina - Veľký Diel, blocks AR, street: Univerzitná 8215/1

Conference fee: is 100€ price including VAT – (includes: conference materials, CD with proceedings [with all papers], lunches, dinner with banquet).

**The application form and abstract** should be sent back no later than **20<sup>th</sup> March 2016** to the Conference Secretary address or e-mail. According to your application we will send you conference information and we are asking you to confirm your participation together with the final paper manuscript in size to maximum eight pages and written following attached pattern, no later than **10<sup>th</sup> April 2016** (via **e-mail**). The articles will be peer-reviewed by independent reviewers. Conference program will be sent to all participants till **10<sup>th</sup> May 2016**.

Send all the documents called "Last Name" participant to E-mail: [crisis@fbi.uniza.sk](mailto:crisis@fbi.uniza.sk).

For each section will select 3 best entries and following consultation of the authors of the amendments on the extent of 10-12 pages will be published in a special issue of the scientific and technical magazine Crisis Management <http://fbi.uniza.sk/kkm/casopis.html>.

### Important dates:

Sending application and annotation of paper to the conference	20. 3. 2016
Papers submission and binding registration form	10. 4. 2016
Notification of the Scientific Committee on Contributions and Reviews	20. 4. 2016
Payment of conference fee and sending advice	24. 4. 2016
Submission of a detailed program of the conference	10. 5. 2016