

International conference: Fire Protection 2011

Place and time: Ostrava. September 7-8, 2011

Participants: 295 from 6 countries (Czech Republic, Germany, Poland, Romania, Slovakia, Serbia)

FOCUS project results presented and published:

1. J. Mozga, D. Procházková: *What is Necessary to do for Petersberg Tasks Realization*. In: požární ochrana 2011. SPBI Ostrava. ISBN: 978-80-7385-102-6, ISSN: 1803-1803, 217-220.

Abstract: The paper deals with the Petersberg tasks. It pursues their analysis and assessment from the viewpoint of present cognition on strategic territory safety management. It proposes to determine priorities according to criteria respecting the public interest that are security and sustainable development of the EU territory including the humans who inhabit it, after to determine real targets, timetables, sources, forces, means and procedures for their achievement.

Key words: Petersberg tasks, assessment, crisis management, realisation.

2. J. Procházka: *Optomaterial Properties*. In: požární ochrana 2011. SPBI Ostrava. ISBN: 978-80-7385-102-6, ISSN: 1803-1803, 278-281.

Abstract: The paper deals with properties of optomaterials that may be used for detection.

Key words: Detectors, semiconductor, optomaterials, property.

3. D. Procházková: *Engineering Disciplines Directed to Safety and its Selected Tools*. In: požární ochrana 2011. SPBI Ostrava. ISBN: 978-80-7385-102-6, ISSN: 1803-1803, 282-287.

Abstract: The engineering disciplines in a present interpretation go from system concept, and therefore, except of current methodology they also use the system methodology that includes: system analysis, system design; solution implementation; and system operation. The methodology of engineering disciplines is a set of used research procedures directed to optimum management of risks. Used engineering concept consists in ensuring the coexistence of several systems that is demonstrated on the human system. The subject is mainly created by multi criteria procedures and also application of the SoS (system of systems) concept. The paper summarizes methodological aspects connected with system of systems and it gives overview of methods suitable for their investigation and for solving their problems.

Key words: Engineering, safety, system of systems (SoS), SoS criticality, engineering methods.

4. D. Procházková: *Analysis of Fukushima Nuclear Power Plant Accident and First Lesson*. In: požární ochrana 2011. SPBI Ostrava. ISBN: 978-80-7385-102-6, ISSN: 1803-1803, 288-291.

Abstract: The paper summarizes the particularities and parameters of earthquakes and tsunamis, and measures by help of them the human ensures the nuclear power plant safety. It describes impact of earthquake and tsunami from March 11, 2011 on the Fukushima nuclear power plant and it concentrates to lesson learned for determination of terms of references.

Key words: Earthquakes, tsunami, safety, nuclear accident, measures.

5. D. Procházková, I. Bartlová, M. Šenovský: *Data on Impacts of Selected Disasters Collected by Combination of What, if Methodology and Case Study Methodology Supporting the Decision-Making*. In: požární ochrana 2011. SPBI Ostrava. ISBN: 978-80-7385-102-6, ISSN: 1803-1803, 292-291.

Abstract: For study, decision-making and management of safe community there are necessary the qualified data on disasters, territory properties, human knowledge and competences in domain of prevention, preparedness, response and renewal of territory. The data collection is concentrated to particulars on causes, i.e. disasters in order that it may be possible to probe the protection means also in prevention that is systematically performed at management of territory including the human society in the frame of strategic development plans. The present paper describes the data collection on territory and on risks connected with selected methods. It uses the combination of methods, namely What, if and Case study methodology.

Key words: Data; territory; disasters; disaster impacts; risks; what, if; case study.

6. J. Srp: *Sensor Networks and Examples of Application*. In: požární ochrana 2011. SPBI Ostrava. ISBN: 978-80-7385-102-6, ISSN: 1803-1803, 318-321.

Abstract: The paper deals with security of wireless sensor networks and examples of their usage.

Key words: Wireless sensor network, sensor, sensor, detector, security, radio signal quality.