Faculty of Safety Engineering VŠB – Technical University of Ostrava www.fbi.vsb.cz



OSH education at the Faculty of Safety Engineering, VSB - Technical University of Ostrava from the perspective of emerging risks



Bratislava , 24.10.2016

Faculty of Safety Engineering



- established on the 1st August 2002
- 78 persons of staff, 1200 students



Future view

Departments



- Fire Protection
- Occupational and Process Safety
- Civil Protection
- Security Services





Laboratory for Risk Research & Management







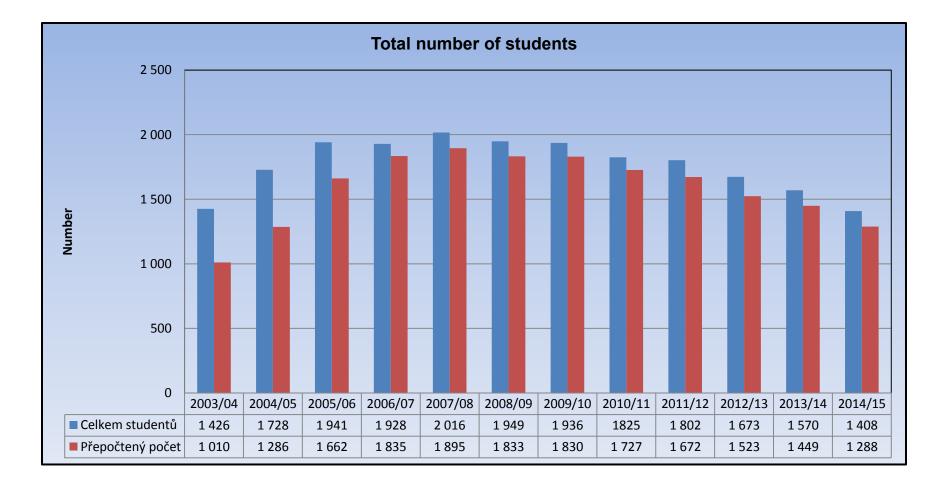
FSE's Mission



- Provision of university education in the field of safety engineering (SE)
- Research activities in the field of SE
- Lifelong education in the field of safety engineering
- Supplementary activity in the field of SE



Total numbers of FSE'students

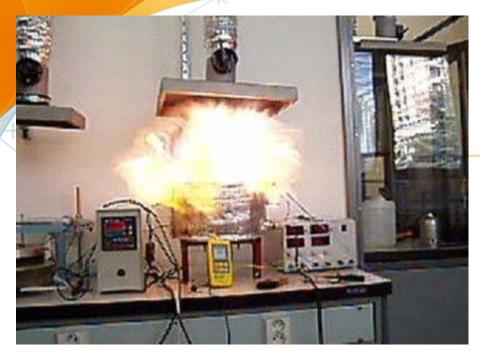


Fields of Study



Bachelor Study

- Fire Protection Engineering and Industrial Safety
- Occupational and Process Safety
- Emergency Planning and Crisis Management
- Engineering Safety of Persons and Property
- Following Master Study
 - Fire Protection Engineering and Industrial Safety
 - Safety Engineering
 - Safety Planning
 - Engineering Safety of Persons and Property











Laboratories of FSE



- Fire-Technical Laboratory orientated especially to the flammability and toxicity of solid substances, liquids, vapors and gases and smoke optical properties
- Technology Safety Laboratory (Explosion Prevention)
- Laboratory for Fire and Alarm Systems
- Laboratory for Occupational Safety (noise, vibration, protective clothing, ...)





Laboratory for Fire Safety





Priorities of R & D





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Department of Occupational and Process Safety

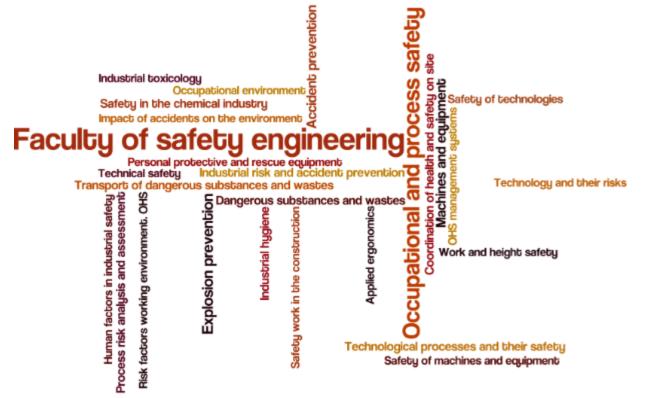


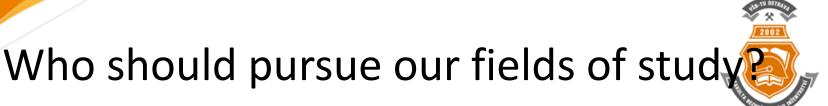




The Department offers two fields of study:

- Occupational and Process Safety (*Bachelor's degree study*)
- Safety Engineering (Master's degree study)





- Creative person
- Individual with analytical and systematic thinking
- Who has a willingness and desire to continue in education
- Who is not afraid of people
- Who likes working in a team





Who SHOULD NOT pursue this field of stud

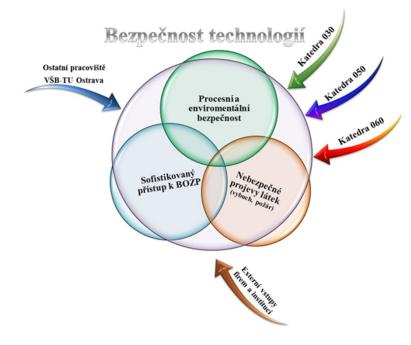
- > Who is afraid of people
- Who is lazy and who any diploma is enough for
- Who is not willing to accept new things and stimuli from the surroundings
- Who does not want to get an interesting and creative job



Research activities



- Sophisticated approach to OSH
 - Safety of environment "Human Robot"
 - Evaluation of occupational exposure to nanomaterials
- Process and environmental safety
- Hazardous substances effects



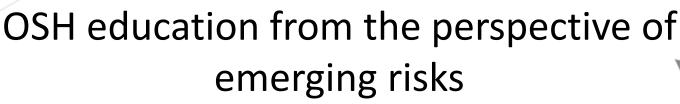
OSH education from the perspective of emerging risks

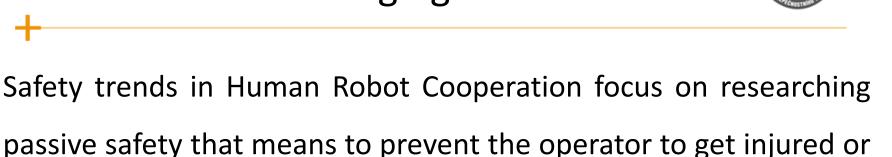
- Strategy Industry 4.0
 - the need to ensure safety "human robot"





Budoucnost: Průmysl 4.0





at least to minimize the injury consequences in case of a collision.

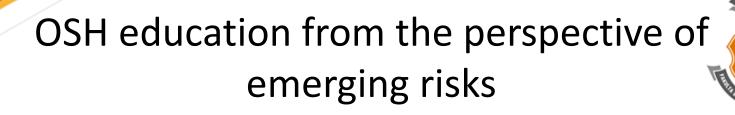


OSH education from the perspective of emerging risks

- Safety of collaborative robots
- The safe and interactive interaction between robots and human operators is the special requirement in real industrial system in the future



Direct cooperation humans with robots = ensure the safety



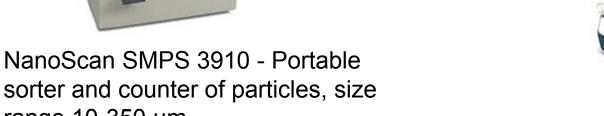
 Nanosafety - assessment of occupational exposure to nanomaterials



range 10-350 µm



CPC 3007 - Handheld particle counter



SidePack AM 510 - Personal monitor of the mass concentrations of particles (Personal laser photometer)

AN510

National conference OSH



- Bezpečnost a ochrana zdraví při práci 2017
- 19. 20. duben 2017, hotel Sepetná, Ostravice



















Conference Secretariat: GUARANT International spol. s r.o. Na Pankráci 17, 140 21 Prague 4, Czech Republic, tel.: +420 284 001 444, fax.: +420 284 001 444, e-mail: wosnet2017@guarant.cz



WOS.net



Workingonsafety.net is an international network of decisionmakers, researchers and professionals responsible for the prevention of accidents and trauma at work.



Kirsten Jørgensen Associate Professor

DTU MANAGEMENT ENGINEERING DTU Management Engineering

Production and Service Management

Technical University of Denmark Produktionstorvet Building 424, room 116 2800 Kgs. Lyngby

Keynotes

nn.

COMPLEXITY

AND SAFETY

RFGILL

EDUCATION

AND TRAINING

FOUNDATIONS

OF SAFETY SCIENCE

RISK MANAGEMENT

AND SAFETY GULTURE

RESEARCH

TO PRACTICE



MAIN THEME SAFETY MANAGEMENT Complexity In Changing Society

Motto: DO WE NEED A HOLISTIC APPROACH?

MAIN TOPICS

- Foundations of safety science: theories, principles, methods and tools
- Research to practice: achievements, lessons learned and challenges
- Risk management and safety culture: case studies, best practices and further needs
- > Safety regulation: reasonable practicable approach
- > Education and Training: prerequisite for safety
- Complexity and safety: multidisciplinarity and inter-stakeholder views

Keynotes



1. Foundations of safety science

Terje AVEN

- Professor of Risk analysis and Risk Management at University of Stavanger (Norway);
 Principal researcher at International Research Institute of Stavanger (IRIS)
- Plenary talk: Review of important milestones in risk assessment and management with the focus on contentious issues and further challenges

confirmed



Profile: <u>https://www.researchgate.net/profile/Terje_Aven</u>

Keynotes



2. Research to practice

Olivier SALVI

- President of INERIS DÉVELOPPEMENT SAS (France); General manager of EU-Vri; Secretary General of ETPIS
- Plenary talk: Effective implementation of research into practice
- Profile: <u>https://www.researchgate.net/profile/</u> <u>Olivier_Salvi</u>



confirmed

Deadlines



Action	WOS 2017
Registration open	1 st November 2016
Abstracts	31 st January 2017
Notification of	31 st March 2017
acceptance	
Full papers	30 th June 2017
Early registration	30 th June 2017
Presentations	15 th September 2017
Conference	3-6 October 2017

Meeting Venue



Hotel Diplomat Prague****





Social Programme



Get together event → Great Monastery Restaurant and Brewery













Social Programme



Gala dinner → Boat trip

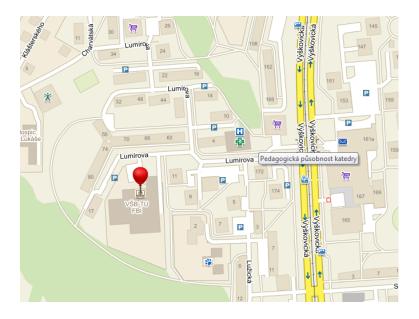




Contact Information



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FBI !!!

Perspective faculty with high employability of graduates in practice

