

VŠB - Technical University of Ostrava
VŠB - Technická univerzita Ostrava

PROGRES 3 Consortium

Meeting of the Representative Board
of the PROGRES 3 Consortium

PROGRES 3

24. 02. 2014 Vysoká škola báňská – Technická univerzita Ostrava



Key research areas at VŠB-TUO

- Raw materials, energy, ecology
- Information technologies
- New materials, structures, technologies
- Safety and security research
- Competitive mechanical engineering
- Management, decision-making and modelling of economic and financial processes

Proposed areas for cooperation among *PROGRES 3* Consortium partners

- **Safety/security** – emphasis on natural disasters, industrial accidents, terrorism, crisis management, anti-explosion protection for structures, etc.
- **Smart factories** – computer integrated management
- **Robotic technologies**
- **CNG** – application of CNG in urban and suburban transport, environmental impacts
- **Automation**
- **Materials** – studies of degradation in modern structural steels and their resistance to degradation processes

Joint activities

- 13 Czech-Slovak projects, 9 Czech-Polish projects, 1 Slovak-Polish project
 - Project submitted in Czech-Polish Forum
 - Project submitted in Euroregion Silesia Microprojects Fund
 - Jointly organized conferences/workshops
 - Laboratory Open Day and Lectures – 25. 4. 2013
 - Competition – best dissertation defended in 2012
 - Competition – best dissertation defended in 2013
1. Economics and finance
 2. Raw materials, energy, health, environment
 3. Information technologies
 4. Competitive mechanical engineering, materials research

Joint activities

- “Universities Without Borders” – building links between technical universities in Opole and Ostrava (project of TU Opole)
- Presentation of PROGRES 3 Consortium and participation at Czech-Polish-Slovak cooperation events
 - Strategies for systematic cooperation among public institutions from the Moravian-Silesian Region and the Silesian and Opole Voivodeships - TRITIA
 - Czech-Polish-Slovak ECONOMIC FORUM 2013
 - Round Table - OP Cross-Border Cooperation

EUPROII – support for research activities of PROGRES 3 Consortium

■ Platform: Safety/security research

Workshop – identifying areas for joint research in safety/security 10–11 Sep 2013

Lecture cycle – visiting lectures from partner workplaces focusing on safety/security

■ Platform: Energy, environment

Workshop – utilization of renewable resources 30 Sep – 2 Oct 2013

Workshop – SMART GRIDS I – 20 March 2013

Lectures – “Electrification System 2013”, “PRO – ENERGY Forum 2013”

■ Platform: Materials

Seminar – meeting of materials engineering departments (CZ, SK, PL) – 21 Nov 2013

Materials science conference - invitation

8 – 10 September 2014, Ostrava, Czech Republic

Main conference topics

- Degradation processes in materials
- Reliability of engineering parts in service
- Transfer of materials research results to industry

Proceedings will be registered in the Thompson database

Date	Number of participants	Number of presentations
6 – 9 September 2004	42	30
4 – 8 September 2006	62	29
8 – 12 September 2008	59	46
6 – 10 September 2010	96	52
10 – 14 September 2012	101	58

Future cooperation – what to focus on

- Active use of European Union funds – respond to HORIZON 2020 calls
- Student mobility – focus on doctoral students, also employees – make full use of Erasmus contracts
- Joint participation at conferences / co-organization of joint conferences – focus on raising awareness and excellent communication in this area
- Deepening cooperation in current areas, identification of new areas for cooperation – economic research is a key area of potential in view of the specialization of the participating universities in the Consortium

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Thank you for your attention

prof. Ing. Bohumír Strnadel, DrSc.

