

Executive Summary

The Workshop on *Selected Problems in Environmental Risk Management and Emerging Threats* (ERM Workshop) took place at Gdansk University of Technology (GUT) in Gdansk, Poland, on 3rd -5th June 2009. The Workshop was organized by the Department of Software Engineering of GUT with the help of the grant received from the Polish-Norwegian Research Fund, Activity 2 (Workshops and Seminars), Project no. PNRF - 290 - A II - 2/08.

The objective of ERM Workshop was to gather different stakeholders (risk and security researchers, infrastructure owners/operators, environment protection experts, administration representatives) to exchange knowledge and experiences related to environmental risks management and the potential threats generating them, and to work towards development of common understanding of the problem and identification of possible further co-operation with complementary contribution from different partners. Particular interest was in identification and assessment of tools that could bring added value to environmental risks analysis and management.

Participation in the Workshop was restricted to some 25 participants and was based on invitations. The objective was to provide for better coverage of different viewpoints, to secure adequate level of competencies, and to avoid too big audience during discussions.

To focus attention of the participants and to control the scope of the presentations and discussions during the Workshop, the Vistula Plains (Zulawy) Case Study has been prepared prior to the Workshop and distributed to the participants. The risk of serious (irreversible) soil pollution resulting from the scenario which involves flooding, energy supply failure, and leaking of oil and/or gasoline was the prominent risk considered during the discussions. The case study also helped to identify the needs related to effective modeling and analysis of risks and the resulting requirements for the supporting tools.

The ERM Workshop included:

- introduction of the participating institutions,
- presentation of the Vistula Plains (Zulawy) Case Study,
- Brainstormings and discussions related to risk identification and the related needs from the viewpoint of managing such risks,
- Presentations of methods of risk modeling and analysis,
- Demonstrations of tools supporting risk modeling and analysis,
- Brainstormings and discussions related to the assessment of methods and tools against the needs.
- Reflection on future cooperation and in particular on possibilities of common projects.

The main results of the project are included in the ERM Workshop Proceedings which are available from the ERM Workshop web site <http://kio.pg.gda.pl/ERM2009/>. The results include Case Study description, methods and tools presentations and the assessment of the tools presented during the Workshop against the needs identified from the Case Study.

An Assessment Questionnaire was distributed during the Workshop to collect the feedback from the participants. The results are summarized below:

Number of participants: 25
Number of responses: 12
Assessment scale:
1 = poor 2 = moderate 3 = adequate 4 = good 5 = excellent

Handling of preparations to the Workshop	4,08
Organization of the Workshop	4,50
Venue	
Suitability to the Workshop	4,36
Service	4,75
Meals	4,58
Hotel accommodation (if relevant)	4,86
Conference Programme	
Quality of the auditorium	4,42
Interest of the programme	4,08
Quality of tools demonstrations	4,25
Quality of discussions	3,75
Overall assessment	4,25

ERM Workshop gathered a representative and competent group of experts from Poland, Norway and from the European Commission Joint Research Center (Ispra, Italy) who devoted their time to discussing very important and 'hot' topic of interrelations between environmental and technological risks and attempted to identify and assess adequate methods and tools for management of such risks. The discussions were scoped by the case study related to the important region of Northern Poland (Vistula Plains – Zulawy) and the variety of different viewpoints represented in the audience helped in achieving the 'teamwork effect' of mutual stimulation and cross-fertilization during discussions. The results of tools assessment provide a map of supplementary coverage of a broad scope of issues relevant to risks modeling and analysis.

We would like to thank all the participants and the organizing committee for their efforts and contribution which helped to make the ERM Workshop a successful event.

Janusz Gorski
Program Chair

Aleksander Jarzebowicz
Organization Chair

Gdansk, June 2009