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EFNDT Working Group 5 - for Antipersonnel Mines Detection

Minutes of the 5th Meeting

Zagreb, March 4, 2002

Place: Zagreb, Center of Technology transfer,

Time: March 4, 2002, 10:00-16:15

Agenda

- I. Opening of meeting,
- II. Roll call of participants,
- III. Adoption of the agenda,
- IV. Accepting the [Minutes](#) of the 4th EFNDT WG5 - APMD meeting, Doc. No. 20,
- V. Information from the convenor,
- VI. Guest presentation: *Society of Engineers in Humanitarian Demining*,
- VII. Project proposals introduction:
 1. Davor Antonic: *Advanced Mine Detection Technologies Evaluation*,
 2. Damir Markucic and Christine Müller: *Reliability of Mine Detection*,
 3. Vjera Krstelj: *Ultrasonic Fast Prodder*,
 4. Marko Maucec: *Assesment of nuclear techniques for identification of landmines*,
 5. Ivan Hrvoic and Josip Stepanic: *Remnants of Antipersonnel Mines Sensitive Electromagnetic System*,
- VIII. Presentation: *Technologies and Recent Developments to Inspect Suspicious Objects*, by Kurt Osterloh,
- IX. 8th ECNDT, June 17-21, Barcelona,
- X. 3rd European American Workshop on NDE Reliability, September 11-13, Berlin,
- XI. Information about activities,
- XII. Date and place for future WG5 meetings,
- XIII. Any other business.

Participants:

Davor Antonic, Ferenc Fücsök, Nenad Gucunski, Vjera Krstelj (WG5 convenor), Rainer Link, Ana Lypolt, Damir Markucic, Marko Maucec, Kurt Osterloh, Josip Stepanic, Zdravko Terze.

Guests of the meeting:

Rudi Stipcic, Director of the demining company *Ru-Ru*,
Andjelko Vojvoda, representative of the demining company *Mungos*.

Meeting discussion:

Ad V

The WG5 convenor informed the members that WG5 and interested organisations started intensive work on the organisation of Mine Action Academy. It is planned as two-year, world-oriented study with the degree pyrotechnician engineer. It fills the need for thorough education for humanitarian demining and related activities, what is not covered in the existing short courses. The official language is english language.

Dr. Antonic presented curriculum in detail.

Prof. Gucunski and dr. Maucec pointed the need of relating the Academy with the UN, especially UNDP, and IAEA.

Prof. Gucunski emphasised that the idea is not to enlargen the number of working deminers, but to build a group of experts and managers.

Dr. Link asked about the precise determination of the Academy regarding both the University structure and the NDT teaching. He advised that essential elements of NDT teaching are included.

Dr. Osterloh pointed that optimal combination of well enough covered practical and academic part need to be found. He added that NDT structure could serve in forming the Academy program, despite the fact that there is no explicit mentioning of NDT in Academy title.

Gen. Stipcic pointed the urgency of the Academy formation, since it is planned to finish demining activities till 2010. He told that experience of existing, related Academies, e.g. Police Academy, could be useful.

Dr. Markucic told that drafts of proposal should be disseminated in order to make possible detailed discussion. He pointed that market study is needed in order to set the Academy profile.

Further in the discussion the issues of elective courses was raised, as well as that of learning about the advanced methods.

Prof. Krstelj concluded that the work toward realisation of Mine Action Academy will continue, and that the needed written material will be disseminated.

Ad VII

The proposals were presented, and were followed with the thorough discussion of meeting participants.

It was concluded that with the appropriate change of title, Proposal I, the most important of the proposals for WG5, includes other proposals as well. The guidelines should be to constructively co-operate with related institutions, and follow developed categorisations. The participants opinion was that WG5 is capable for that projects, the members are ready to participate in and will furthermore ask other people for participation in it.

In the discussion, members raised many questions of technical character. In particular, mr. Vojvoda pointed that his firm has the capabilities to test the presented, interested solutions, and Mr. Fucsok

raised the question of data fusion.

Ad VIII

Dr. Osterloh presented the state-of-the-art in inspection of suspicious objects. He critically discussed further detection and inspection approaches and place of standards.

Ad IX

The participants pointed the need to present a paper about the past WG5 work on the 8th ECNDT. The members agreed unanimously that Dr. Osterloh will present the paper with that topic.

Ad X

Dr. Terze presented the project proposal *Mobile Platform for Multi Sensor Detection*, and its relation with the existing project application frameworks.

Ad XI

The members agreed that the 6th EFNDT WG5 - APMD meeting is planned to be held in Barcelona, in June 2002, during the 8th ECNDT. Furthermore, the members agreed that the 7th WG5 - APMD meeting be one-day event, planned for October 2002.

At 16:15 Prof. Krstelj closed the Meeting.

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