

EFNDT Working Group 5 - of Antipersonnel Landmines Detection

Minutes of the 2nd Meeting

Rome, October 17th 2000

Place: Rome, Palazze dei Congressi,

Time: October 17th, 2000, 16:30-19:50

Agenda

- I. Accepting the [Minutes](#) of the 1st EFNDT WG5 - APLD meeting, Doc. No. 5,
- II. Objectives and working strategy of EFNDT WG5 - APLD,
- III. Membership report (membership applications and possible members presentations),
- IV. International Conference on APLD, [MATEST 2001](#) – *NDT in Environment Protection at the beginning of the 21st century*,
- V. Future tasks - teams formation
 - o Proposal for new NDT standardisation working groups,
 - o Preparing the advisory comments to the UN documents regarding the antipersonnel landmines detection,
 - o Initiating co-operation with related organisations as ISO, UN, UNESCO, EC JRC,
- VI. Other topics.

Participants:

Davor Antonic, Uwe Ewert, Ferenc Fücsök, Nenad Gucunski, Vjera Krstelj, Vladimir Klyuev, Ana Lypolt, Damir Markucic, Frantisek Peterka, Andrej Samokrutov, Josip Stepanic, Waldemar Swiderski, Mario Zagar, Hermann Wüstenberg,

Guests of the meeting:

Emilio Romero, President of the Spain NDT Society,
Jesus Serrano, President of the 8th ECNDT Organisation Committee.

Ad I

Prof. Vjera Krstelj, convenor of EFNDT WG5 - APLD (in further text WG5), welcomed guests and present members on behalf of EFNDT WG5-APLD. She thanked participants for attending this meeting, trying to find the better way to help people affected by mines. Prof. Krstelj informed the group about the 1st WG5 meeting, held in November 1999. in Zagreb, calling for voting about

minutes of it, what was accepted unanimously.

Prof. Krstelj red the agenda, asking for its approval, and asked members to present themselves.

The meeting was enriched by participation of Mr. Romero and Mr. Serrano, who already highly supported the WG5 activities; namely they informed the group that landmines detection methods should be considered as very important NDT people activity. Thereby the session Landmines Detection is announced for 8th ECNDT, 2002. in Barcelona. The WG5 accepted the information with great pleasure and promised strong activity toward.

Ad II

Prof. Krstelj told present members about the on-going activities. She explained WG5 working principles and its connection to EFNDT, emphasised that WG5 will concentrate its efforts only on humanitarian demining.

About the WG5 future tasks and the organisation of WG5 Prof. Krstelj said that WG5 structure will be determined in accordance with the projects worked at, and emphasised that WG5 should be bigger than it is now, but not too big in order for the members number not to influence destructively WG5 effectiveness. Because the list of members is in the process of forming the extensiveness of group is rather unknown yet, but when it will be finished, it will be distributed to the WG5 members. Then it will be considered whether the mirror groups should be formed on national base because it would be more easily realised the tasks if members from the same country will work intensively together, for what mirror group formation is a natural prerequisite. The mirror group representative is to report about tasks conducted on WG5 meetings, what will not exclude individual membership in WG5. Prof. Krstelj told that WG5 is R&D oriented group so one should know all the other groups doing R&D in mines detection and demining. It is not known how many people work on research of antipersonnel landmines detection, what projects are opened, what patents exist, and similar. She emphasised that standards are missing and those in application are mostly inappropriate, so according to her the tasks are to standardise procedures, terminology and education. Following the efforts made by the WG5 she informed that work on the demining companies' evaluation began. Furthermore she said that teams should be formed in the WG5 to focus on different topics and problems, so the priorities comes out as follows:

- making links with related organisations for possible co-operation,
- preparing the report about the state-of-the-art in antipersonnel landmines detection,
- formation of mirror groups if necessary.
- standardisation,
- certification in APLD by possible reflection of NDT structure of certification, in co-operation with WG 1,

After Prof. V. Krstelj introductory explanation of WG5 objectives and working strategy the extensive discussion shows the high interest of experts in WG5 goals from which the following is extracted:

1. Prof. Wüstenberg said that R&D work, and the experience in organising the work are

prerequisites for WG5 to be recognised, and that is a long-term work. He pointed out the importance of the validation procedure. Prof. Wüstenberg said that more have to be learned about the demining operations from the field experts, and that tasks conducted by WG5 should be more concentrated on R&D than on standardisation of the methods.

Prof. Wüstenberg extracted from the previous discussion the following list of important WG5 tasks:

- collecting information,
 - looking for results in R&D, recommendations and support from national and International related institutions and financing as well, after what WG5 could be used as reference for APLD.
2. Dr. Ewert commented that in a variety of industrial applications there is a considerable knowledge on materials used and other related topics, what does not exist in the case of landmines detection. Dr. Ewert thinks that invitation of specialists for the related areas, like ones for soil structure and dynamics, is needed. He said that some time is needed for the processes mentioned to be performed, like locating the related programs that could possibly exist in other institutions. He proposed as WG5 priority task that the list of organisations for co-operation is made and disseminated among the WG5 members.
 3. Prof. Gucunski paid the attention of a WG5 to the fact that European Geotechnical Society is the example of this kind of organisations. Regarding the standardisation it should be careful not to interfere with the development of methods.
 4. Dr. Markucic hold the opinion that standardisation of the methods is out of the scope in this moment but QA procedures should be applied. The standardisation work should be focused on general APLD topics, terminology and organising the qualification of humanitarian demining companies.
 5. Dr. Swiderski said that about 20 different methods, prospective landmines detection methods, exist and the performance demonstration is of utmost significance.
 6. Dr. Fücsök has given several remarks thinking that WG5 will be successful if one goal is put above the others. Overall, information should be spread, so information exchange is important, and even a small pieces of information exchanged could improve a position considerably. For that purpose, a kind of information exchange centre should be established. In his opinion WG5 could be successful as information providing centre and not as support of a particular method R&D.
 7. Dr. Peterka said that important task in APLD is suspected area reduction principle.
 8. Mr. Antonic informed that in Croatia, the testing of mine field for the performance demonstration will be in service soon.
 9. Prof. Klyuev said that one step toward the information dissemination was made independently through the Journal *Control and Diagnostics* of Russian Society for NDT and Technical Diagnostics which one issue is devoted to landmines and unexploded ordnance detection equipment.
 10. Dr. Samokrutov present the journal named what was highly appreciated and considered with interest.
 11. Prof. Krstelj summarised WG5 priorities as follows:
 - making links with related interested organisations for possible co-operation,
 - preparing the report about the state-of-the-art in antipersonnel landmines detection,
 - R&D (with asking for support),
 - formation of mirror groups if necessary.

- certification in APLD by possible reflection of NDT structure of certification, in co-operation with WG 1,
- work on standardisation in the field of APLD.

Ad III

1. Mr. Stepanic presented the membership report. There are 46 members from 16 European countries, USA and Canada.

Ad IV

1. Prof. Krstelj informed about International Conference on APLD, MATEST 2001 – *NDT in Environment Protection at the beginning of the 21st century*, which will be focussed on the problem of landmines detection. This Conference will be held in Dubrovnik-Cavtat on Sept. 23-24, 2001 and all information could be found on <http://www.fsb.hr/crsndt>.
2. Several participants thought that the period from the 2nd WG5 meeting to MATEST 2001 would be too long to combine in further work the scientific efforts. As a consequence, it was determined to held the 3rd WG5 meeting in a form of a workshop. All information will be on <http://www.fsb.hr/crsndt>. Workshop will include the on-site demonstration of the APLD in humanitarian demining in order to provide members with novel in the field.

Ad V

Having in mind the conclusions reached in discussion about the subsequent topics, the resolutions of the 2nd WG5 meeting were formulated as follows:

1. Method of providing the WG5 members with rather broad range of information regarding not only important R&D information, but also technical, commercial, as well as people fundus related information, in particular should be worked upon;
 - the listing of organisations for possible co-operation,
 - the listing of companies
 - involved in demining,
 - selling equipment for humanitarian demining,
 - training personnel for demining,
 - related to possible support and financing
 - the listing of programmes and projects (including profiles of experts needed),
 - the listing of journals for APLD possible dissemination
 - the listing of all prospective landmines detection methods, supported with information whether for a particular method validation exists, giving additional details about the validation.
2. In the method, in addition to the points listed, there will be included the tasks to
 - consider the invitation of specialists of related fields,
 - organise the workshops in regular time intervals in order to maximise the information spreading and synergetic effect among the WG5 members, and in particular will

organise the 3rd EFNDT WG5 - APLD meeting in April 2001, in National Park Plitvice, Croatia, devoted to the state-of-the-art in landmines detection. Precise date will be given later on <http://www.fsb.hr/ndt/wg5-apmd/wg5-apmd.html>.

3. The WG5 will work on

- standardisation covering the landmines detection procedures, equipment usage and demining personnel training in such a way that it does not collide with the R&D,
- procedures of performance demonstration for landmines detection equipment, demining personnel, and detection procedures.

Ad VI

The present members were informed about the *Special Posters auction*, held during 15th WCNDT. In it, 40 posters were presented, all made by German students during the UNICEF Year 1999 and related to the students' expressions about landmines and their effects on humans. The posters were shown in the auction, that was made possible thanking to WCNDT organising committee support and understanding. The organisers of the auction were Prof. Vjera Krstelj (Croatia) and Prof. Hermann Wüstenberg (Germany). Large efforts in performing the auction were taken by Mrs. Marianne Wündrich-Brosien (Germany) and Mrs. Zdenka Kuhta (Croatia), that were all voluntaries. In the auction every interested person could have donated some amount and get a particular poster as a souvenir. The amount collected will be used to enable additional efforts of the EFNDT WG5 – APLD for the Mine free world.. Up to now the list of donators, ordered from the largest donator, is the following: Dr. Giuseppe Nardoni, on behalf of the 15th WCNDT, Deutsche Gesellschaft für Zerstörungsfreie Prüfung, Croatian Mine Action Centre, Institut Dr. Förster, Germany, SER. CO. TEC., Italy, Krautkramer, Germany, Olympus, Germany, MATKONERG, Croatia and MATKONERG, Slovenia. We are taking a freedom to inform that auction is still open for your kind contribution in which respect one should contact WG5-APMD.

The members agreed that the collected money be used for supporting WG5 activities. In addition, they determined unanimously that a visit to MATEST 2001 is to be paid to a student, the poster of whom obtain a maximum donation.

In 19:50 the meeting was closed.

This web site is official version of WG 5 - APLD. Last updated: February 1st 2001.
Send questions, comments and suggestions to: josip.j.stepanic@fsb.hr