



**NDRF Summer Conference 2005  
in Co-operation with  
SWEDEC  
24<sup>th</sup> – 26<sup>th</sup> August, 2005  
in Stockholm**



18 September, 2005

**Proceedings of  
NDRF Summer Conference 2005**

This conference was organized by Nordic Demining Research Forum (NDRF) and Swedish EOD and Demining Centre (SWEDEC). It took place at Karlberg Slott in Stockholm from 24<sup>th</sup> to 26<sup>th</sup> August, 2005. Meeting facilities and accommodation were made available by the Swedish Armed Forces.

This document includes the actual conference programme and the list of participants.

The document does not include papers of the presentations given at the conference. The papers which have been made available for NDRF can be found in the database associated to the [NDRF HomePage](#). Links to each of the papers are included in the programme tables of this document. A total list of documents including this one can also be downloaded via the “Document” entry on the HomePage using Keyword “SS05”.

The documents are in PDF-format. Therefore, presentations which contained animations do not include these in the up-loaded version.

For detailed questions to each of the papers, please refer directly to the author or the person who gave the presentation in question. Addresses, phone numbers and e-mail addresses are included in the participants’ list.



*Karlberg Slott*

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## Background:

NDRF's activities, including the annual summer conference, have so far been focused on land mines including UXO as they are remains of war. Familiar technologies, techniques, and to some extent organisations may also be used under other circumstances such as removal of and protection against IED (Improvised Explosive Device) and the clearing of military training fields prior to their transfer to civilian use. This becomes even more evident as the actual operations slowly shift from being conducted by aid organisations and governmental institutions to private, commercial companies.

Consequently, this year's summer conference had three major topics:

Humanitarian Demining - Systems, Detection, and Operations  
 IED, Improvised Explosive Device  
 Clearing of UXO-Infected Land and the Transfer thereof to Civilian Use

### IEDs, Improvised Explosive Devices

IEDs, Improvised Explosive Devices, are non-standard weapons, which may often be manufactured by use of items used for other applications than military and which can often be purchased as standard parts to be slightly modified. IEDs can be "remnants of war" or weapons used against people and society in a post war period. IEDs may be used against civilians, refugee workers, development projects, and peacekeeping forces.

An IED can be almost anything with any type of material and initiator. It is a "homemade" device that is designed to cause death or injury by using explosives alone or in combination with toxic chemicals, biological toxins, or radiological material. IEDs can be produced in varying sizes, functioning methods, containers, and delivery methods. IEDs can utilize commercial or military explosives, homemade explosives, or military ordnance and ordnance components.

They are unique in nature because the IED builder has had to improvise with the materials at hand. Designed to defeat a specific target or type of target, they generally become more difficult to detect and protect against as they become more sophisticated.

IEDs will include but not be limited to "booby traps", "way-side bombs", "car bombs" or Vehicle Borne IEDs (VBIEDs), and "suicide bombs". Depending on the political situation and judgement, IEDs may be classified as a "terrorist weapon".

Like standard weapons, the IEDs consist of explosives, an ignition system, and often fragments. The explosives may be standard explosives but may also be a mixture of commercially available and normally harmless chemicals. The detonation may be initiated by a proximity device or via remote or time control.

It is difficult to detect and to clear IEDs as per definition the know-how is limited about the construction of the actual weapon.

#### Clearing of UXO-Infected Land and the Transfer thereof to Civilian Use

The recent political and technological development in the world has caused changes in military structures in Europe, North America and in parts of Asia. These changes respond to the reduced demand for military training areas. Besides, land has become a highly demanded asset, especially in developed densely populated countries. As a result of these tendencies, large areas previously used as shooting areas or military training areas are currently being or will in the future be transferred to civilian application and used for urban development or recreational purposes.

In March 2005 NDRF held a conference on this subject together with Danish Defence Research Establishment (DDRE).

Technology and processes used to clear land prior to the transfer to civilian use are similar to those used in humanitarian mine clearance and EOD.

The session summarised some key elements from the March 2005 conference.

**Programme:**

24 AUG, 2005

<b>Subject:</b>	
<b>Registration and Morning Coffee</b>	
<b>Welcome to NDRF Summer Conference 2005</b>	<b>Thore Bäckman, SWEDEC Bjarne Haugstad, Chairman of NDRF</b>
<b>Administrative Information</b>	<b>Ole Nymann, NDRF</b>
<b>Opening Session: Humanitarian Demining, - Systems, Detection, and Operations</b>	<b>Chairman: Bjarne Haugstad NDRE</b>
<a href="#">Approach to Improve Efficiency in Humanitarian Mine Clearance. - Technical Survey and area reduction.</a>	Conny Åkerblom, GICHD
<a href="#">COLUMBINE</a> - Mine Clearance by Combined Methods an improved way to use existing techniques	Kim A. Fog, DANDEC Jan Larsen, DTU
<a href="#">Dual Technology Detectors: A New System and ITEP Results</a>	Colin Hatchard, CyTerra
<a href="#">Magnets, - A Tool for Ground Preparation in Manual Demining</a>	Kaj Hörberg
<a href="#">Dispersion of TNT/DNT by Contaminated Particles above Ground in Field Environment.</a>	Eva-Lena Gårdhagen, G2
<a href="#">The use of Dogs in Maritime Environment</a>	J-O Widar, SWEDEC
<a href="#">Detection of Explosives using Plants</a>	Simon Østergaard, ARESA
<a href="#">Detection Methods used for Clearing Shooting Ranges</a>	Anders Tengbom, SWEDEC
<b>Demonstration of the Use of Dogs in a Maritime Environment</b>	<b>J-O Widar, SWEDEC</b>
<a href="#">Lessons Learned process in the Swedish Armed Forces.</a>	Peter Rindstål, FOI/SWEDEC
Lessons Learned - 2	Matts Gustavsson, FOI/SWEDEC
<a href="#">ITEP – International Test and Evaluation Program for humanitarian demining: Status and Development</a>	Curt Larsson, SWEDEC

25 AUG, 2005

<b>Opening Session: Detection</b>	<b>Chairman:</b> <b>Jan Larsen, DTU</b>
<a href="#">MOMS: Multi Optical Mine detection System</a>	Magnus Uppsäll, FOI
<a href="#">MOMS, Laser Radar</a>	Dietmar Letalick, FOI
Autonomous Airborne Mine Detection	Anders la Cour-Harbo, AUC
<a href="#">A combined study of EMIS and GPR detectors by the use of Independent Component Analysis</a>	Axel Morgenstjerne, DDRE/DTU
<b>Opening Session: IED, Improvised Explosive Devices</b>	<b>Chairman:</b> <b>Thore Bäckman, SWEDEC</b>
IED, An International Threat	Kim A. Fog, DANDEC
IEDD from a Swedish perspective, present and future development.	Magnus Karlsson, SWEDEC
<a href="#">IED Technology</a>	Ove Dullum, NDRE
IEDD on the West Bank	Greg Cordes, DANMINAR
SOP for IEDD	Henrik Færch, DANMINAR
The Status of Biological and Chemical Detectors.	Conny Åkerblom, GICHD
World War 2 Arial Photography used for Detection of Remanence of War	Huibert van Driel, SARICON BV
Ballistic Test of Vehicles using simulated Mines.	Roald Løseth, ROFI

26 AUG, 2005

<b>Session:</b> <b>Clearing of UXO-Infected Land and the Transfer thereof to Civilian Use</b>	<b>Chairman:</b> <b>Svend Michael Olsen,</b> <b>DANDEC</b>
<a href="#">Risk assessment of civilian use of an abandoned firing range</a>	Ove Dullum, NDRE
<a href="#">EUCLID RTP 14.12. PROJECT:</a> Management of UXO Clearance.	Erik K. Lauritzen, NIRAS-DEMEX
<a href="#">Transfer of Land from Military to Civilian Use</a>	Lars-Olof Nilson, Försvarsmaktens Högkvarter
<a href="#">MINEHOUND TRIALS</a>	David Daniels, ERA Technology Ltd
<a href="#">EUCLID Project:</a> Reclamation of Land Contaminated by Munitions-related Activity (CEPA 14.12) Explosives Treated as Pollution	Inés García, NIRAS-DEMEX presented by Erik K. Lauritzen
<a href="#">Legal Aspects: Limits and Possibilities from a Norwegian Point of View.</a>	Tod Erik Faye-Schjøll, Forsvarsbygg
<a href="#">Jamming of IED</a>	Jan Arnsby, FOI
<b>Closing the NDRF Summer Conference 2005</b>	<b>Gert Daugaard, NDRF</b> <b>Thore Bäckman, SWEDEC</b>

## List of Abbreviations:

AUC:	Aalborg University
DTU:	Technical University of Denmark
DANDEC:	Danish Demining Centre
DDRE:	Danish Defence Research Establishment (FOFT)
FFI:	Forsvarets forskningsinstitut (NDRE)
FOI:	Totalförsvarets forskningsinstitut (SDRA)
FOFT:	Forsvarets Forskningstjeneste DDRE)
IED:	Improvised Explosive Device
IEDD:	Improvised Explosive Device Disposal
LiU:	Linköpings Universitet
NDRE:	Norwegian Defence Research Establishment (FFI)
NDRF:	Nordic Demining Research Forum
SOP:	Standard Operational Procedure
SRV:	Swedish Rescue Service Agency (SRSA)
SWEDEC:	Swedish EOD and Demining Centre

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*Sunset over Stockholm*