Invitation for Governments and National Authorities to the Chemical Weapons Convention (CWC) to present candidates for the

Advanced Training Course on Analysis and Verification of Chemicals related to the Chemical Weapons Convention

to be held on August 16 – November 26 2010.

The course is offered by the Ministry for Foreign Affairs of Finland and is arranged by VERIFIN.

The course is offered to the States Parties and Signatory States of the CWC mentioned in the DAC List of Official Development Aid (ODA) Recipients

This document should be distributed in full text (eight pages) to all interested applicants.
Invitation to Present Candidates for the Advanced Training Course on Analysis and Verification of Chemicals related to the Chemical Weapons Convention

ADVANCED TRAINING COURSE ON ANALYSIS AND VERIFICATION OF CHEMICALS RELATED TO THE CHEMICAL WEAPONS CONVENTION

OFFERED BY VERIFIN ON BEHALF OF THE GOVERNMENT OF FINLAND

Background

The Chemical Weapons Convention (CWC) requires extensive verification procedures to ensure that:

- the existing stockpiles of chemical weapons are declared, identified and destroyed;
- no chemical weapons will be produced;
- permissible production of certain chemicals stays within the limits defined in the CWC;
- legitimate production of chemicals is not diverted to purposes prohibited by the CWC;
- in the cases of alleged use of chemical weapons the necessary proof can be obtained.

Special analytical skills and instrumentation will be needed to accomplish verification. Specialists in the following fields will be needed:

- the International Inspectorate of the Organization for the Prohibition of Chemical Weapons (OPCW),
- the laboratories designated by the Director General of the OPCW to perform certain analytical tasks under the CWC, and,
- the National Authorities which will be responsible for the implementation of the CWC in their own country.

In order to help to ensure wide geographical distribution of potential future inspectors (OPCW) and specialized laboratories the Government of Finland decided in 1989 to start training programs on two levels specially designed to serve the needs of the CWC. Twenty-six Basic Training Courses and thirteen Advanced Training Courses have been organized by the end of 2009. Each training course is attended by four participants.

Specific Aim of the Advanced Training Courses

Two levels of training courses are arranged, basic and advanced. The courses are designed to provide the participants with a theoretical background and practical skills in analytical verification methods and the use of instrumentation needed for the verification of the CWC.

At the conclusion of the Advanced Training Course the participants should be able to perform all the different phases relevant to the verification of known chemicals related to the CWC by using both chromatographic and different spectrometric methods suitable for unambiguous identification (for the program of the Advanced Training Course see Annex I).

Finnish Institute for Verification of the Chemical Weapons Convention
P.O. Box 55, FI-00014 University of Helsinki, Finland
Tel. +358-9-191 50443, Fax +358-9-191 50437
http://www.verifin.helsinki.fi
Organizers

The programs are organized by the Ministry for Foreign Affairs of Finland and the Finnish Institute for Verification of the Chemical Weapons Convention, VERIFIN.

VERIFIN, previously the Finnish Research Project on the Verification of Chemical Disarmament (CW Project), was started in 1973. The Institute is located at the University of Helsinki, Finland. Following the principle of academic openness VERIFIN has no ties with military establishments and therefore no part of its research work related to the CWC is classified or otherwise restricted. The research data is reported as scientific publications and has been presented to the Conference on Disarmament in the form of handbook type reports (Finnish Blue Books). The 22nd volume was introduced in 1994.

Financial Conditions for Participation

The Organizers will provide, according to their established rules, free of charge:

- travel costs from home country to Helsinki and return;
- travel costs within Finland when directly connected with the program (excluding daily commuting in Helsinki);
- accommodation in Helsinki;
- daily allowances to cover meals and other everyday running costs. In 2010, this allowance was EURO 36 (approx. USD 52);
- health care insurance for acute cases during the stay in Finland.

If the participants cannot be expected to have suitable clothing for Finland’s climatic conditions financial support or other arrangements can be made to acquire these locally after arrival in Finland.

The financial conditions apply to the participant only. If members of his/her family follow, all the costs incurred and visa arrangements will have to be covered by the participant of the sending government.

VERIFIN expects that the sending government or the current employer of the participant provides the participants, while staying in Finland, with the normal salary payable in the home country to cover the domestic expenses.

Candidates

All the candidates for the Advanced Training Course should have

- reasonable (practical and theoretical) experience in analytical chemistry irrespective of their formal academic background and degree;
- experience in at least the basics of chromatographic techniques and their practical applications.

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Invitation to Present Candidates for the Advanced Training Course on Analysis and Verification of Chemicals related to the Chemical Weapons Convention

- good working knowledge of the English language, as all the work will be conducted in English.
- already participated in the Basic Training Course.

Date, program and place

Advanced Training Course (15 weeks): August 16 – November 26, 2010

The Advanced Training Course is a continuation of the Basic Training Course. Its focus is spectrometric techniques (mass spectrometry, infrared spectroscopy and nuclear magnetic resonance spectroscopy) and their use for verification analysis.

All teaching will take place at the facilities of VERIFIN in the building of the Department of Chemistry, University of Helsinki, Finland.

Other relevant VERIFIN Training Courses in 2010
- Training Course on National Authority and Chemical Databases, August 2–13, 2010

Applications

The invited governments are requested to present their candidates by providing the following information, in English, directly to VERIFIN:

- filled in application form (attached to this document) with the approval by an official body (Government, Ministry, National Authority);
- a CV in free form (mandatory): professional career, details of academic and scientific work description of previous and current activities related to analytical chemistry;
- examples of possible publications or articles written by the candidate may be enclosed;
- priority will be given to applicants that have or will have an affiliation to the National Authority to the CWC;
- applications without valid mailing address are not taken into consideration.

The applications should be presented before March 31, 2010 and sent (mail or fax) to the following address.

Fax: +358 9 19150437
VERIFIN
P.O. BOX 55
FI-00014 UNIVERSITY OF HELSINKI
FINLAND

Selection of participants

The selection of the four participants for the Advanced Training Course will be made exclusively on the following criteria:

Finnish Institute for Verification of the Chemical Weapons Convention
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Invitation to Present Candidates for the Advanced Training Course on Analysis and Verification of Chemicals related to the Chemical Weapons Convention

- estimation of the suitability of the professional experience for the training program;
- possible involvement with the National Authority;
- homogeneity of the group in regard to their academic and working experience;
- knowledge of the English language;
- the candidate has already participated in the Basic Training Course.

It is the wish of the organizers to be able to have the four participants from four different countries. However, if this cannot be achieved, more than one participant from a country will be accepted.

The selection for the Advanced Training Course will be made in beginning of November and the respective governments and selected participants will be informed of the results before the end of November. Names of the selected participants are presented on VERIFIN's website after selection has been made.

The organizers expect that the selected participants will confirm duly their participation by contacting VERIFIN immediately after selection.

Helsinki, January 2010

VERIFIN
14th Advanced Training Course on Analysis and Verification of Chemicals related to the Chemical Weapons Convention

August 16 – November 26, 2010

- Introduction including analysis strategy and Recommended Operating Procedures (1 week)
- Quality system (ISO 17025:2005, 1 week)
- Gas chromatography–mass spectrometry with a quadrupole GC-MS including EI positive and CI positive ionization modes (5.5 weeks)
- Liquid chromatography–mass spectrometry with APCI and ESI ionization (2 weeks)
- Nuclear Magnetic Resonance (NMR) Spectroscopy (2.5 weeks)
- Independent Problem Solving (3 weeks)

Arrival to Finland: August 14-15, 2010
Departure from Finland: November 27-28, 2010

Finnish Institute for Verification of the Chemical Weapons Convention
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http://www.verifin.helsinki.fi
### Application Form for the Advanced Training Course on Analysis and Verification of Chemicals related to the Chemical Weapons Convention
**August 16 – November 26, 2010**

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<th>Participation in the Basic training course at VERIFIN (course number, year):</th>
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<th>Your affiliation to the National Authority (CWC) of your home country:</th>
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http://www.verifin.helsinki.fi
Brief description of your present work:


Briefly state how the training will benefit your present work, your institution and your country:


List below relevant courses in the field of CWC you have attended:


Date and Signature: Approved, supported by:


Superior or organization, signature and seal

All fields must be filled in clearly, preferably using a typewriter.

Note that the Advanced Training Course can only be applied for AFTER having participated in the Basic Training Course.

Arrival to Finland: August 14-15, 2010
The applications have to be sent by mail or fax directly to VERIFIN.

Fax: +358 9 19150437

VERIFIN
P.O. BOX 55
FI-00014 UNIVERSITY OF HELSINKI
FINLAND

This document should be distributed in full text (eight pages) to all interested applicants
Invitation for Governments to present candidates for the

**Training Course on National Authority and Chemical Databases**

to be held on August 2-13, 2010 in Helsinki, Finland

The course is offered by
the Ministry for Foreign Affairs of Finland
and is organized by
the Finnish Institute for Verification of the Chemical Weapons Convention (VERIFIN)

The course is offered to
the States Parties and Signatory States of the Chemical Weapons Convention (CWC)
mentioned in
the DAC List of Aid Recipients, Part I, Developing Countries

**Aim of the training**
The program is intended for persons who are or are going to be involved with the National Authority to the Chemical Weapons Convention. The part of the training course concerning the National Authority (NA) familiarizes the trainees in annual practical routines of NA, including the inquiries made to the local industry and the declarations made to the Organization for the Prohibition of Chemical Weapons (OPCW). The NA training also familiarizes the trainees in routines during inspections. The aim of the chemical database training is to introduce various databases and libraries which can be utilized for the verification tasks of the CWC. Training includes lectures and practical exercises with computers.

**Other VERIFIN Training Courses in 2010**

- Please check the web site of VERIFIN for other training courses in 2010:
  http://www.helsinki.fi/verifin/VERIFIN/english/training/application.htm

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Training Course on National Authority and Chemical Databases

organized by VERIFIN
on behalf of the government of Finland

Course description

The first aim of the National Authority (NA) training is to familiarize the trainees in annual practical routines of NA, including the inquiries made to the local industry and the declarations made to the OPCW. A training session of the electronic declaration tool for National Authorities provided by the OPCW (EDNA) for preparing declarations will be included in the course program.

The second aim of NA training is to familiarize the trainees in routines during inspections.

The third aim of NA training is to familiarize the trainees in legislative issues required for national implementation of the CWC.

The aim of the chemical database training is to introduce various databases and libraries which can be utilized for the verification tasks of the CWC. Training includes lectures and practical exercises with computers.

Organizers

The program is organized by the Ministry for Foreign Affairs of Finland and the Finnish Institute for Verification of the Chemical Weapons Convention, VERIFIN. The practical conduct of the course is assisted by experts from the Technical Secretariat of the OPCW.

Financial Conditions for Participation

The Organizers will provide, according to their established rules, free of charge:

- travel costs from home country to Helsinki and return (airline tickets to the closest airfield only);
- travel costs within Finland when directly connected with the program (excluding daily commuting in Helsinki);
- accommodation in Helsinki;
- daily allowances to cover meals and other everyday running costs. In 2010 this allowance is EURO 36 (approx. USD 52).

The financial conditions apply to the participant only. If members of his/her family follow, all the costs incurred and visa arrangements will have to be covered by the participant of the sending government.
Candidates

All the candidates for the Training Course on National Authority and Chemical Databases should have

- good working knowledge of the English language as all the work will be conducted in English;
- priority will be given to applicants that have or will have an affiliation to the National Authority to the CWC;
- experience in administrative issues concerning chemicals;
- practical experience with computers and the Microsoft Windows environment.

Date, program and place

Training Course on National Authority and Databases: August 2-13, 2010

Arrival to Finland: July 31 - August 1, 2010; departure: August 14 - 15, 2010

Main Subjects

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<tr>
<th>Days (approx.)</th>
<th>Accommodation (public transport and services, city and shopping)</th>
<th>Introduction to VERIFIN, staff, and facilities</th>
<th>National Authority (NA)</th>
<th>Duties of the NA, declarations, inspections, legislative issues</th>
<th>Chemical databases, VERIFY chemical database (developed by VERIFIN), OPCW database, and workshops</th>
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All teaching is arranged by VERIFIN and takes place in the buildings of the Department of Chemistry and Department of Physics, University of Helsinki, Finland.

The OPCW provides general lectures on the CWC, legislative issues, and EDNA in the NA part of the program.

E-mail

Training course related e-mails should be sent to vesa.hakkinen@helsinki.fi

Applications

The invited governments are requested to present their candidates by providing the following information, in English, directly to VERIFIN:

- filled in application form (Annex 1) with the approval by an official body (Government, Ministry, National Authority);
- a CV in free form (mandatory): professional career, details of academic and scientific work, description of previous and current activities related to National Authority.
Application forms can be printed also from our Internet page http://www.verifin.helsinki.fi

Applications without valid mailing address are not taken into consideration. The applications have to be sent by mail or fax directly to VERIFIN.

The selected participant will be contacted directly by VERIFIN for more detailed information on the training program and training course facilities, on travel arrangements, accommodation, and local transport.

The applications should be presented before March 15, 2010 and sent (mail or fax) to the following address.

Fax: +358 9 19150437

VERIFIN
P.O. BOX 55
FIN-00014 UNIVERSITY OF HELSINKI
FINLAND

Selection of participants

It is the wish of the organizers to be able to have from sixteen to twenty (16–20) participants from different countries. However, if this cannot be achieved, more than one participant from a country will be accepted.

There is no limitation as to the number of candidates to be presented by one country and their order of preference, as the training program will be determined by the organizers following the principles laid out above.

The selection of participants for the Training Course on National Authority and Chemical Databases will be made in the end of March and the respective governments and the selected participants will be informed of the results during April 2010. Names of the selected participants are presented on VERIFIN’s website after selection has been made.

The organizers expect that the selected participants will confirm duly their participation by contacting VERIFIN immediately after selection.

Helsinki, January 2010
VERIFIN
Annex I

Application for the
Training Course on National Authority and Chemical Databases
August 2 - 13, 2010

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Educational background (degree):

Profession:

Your affiliation to the National Authority (CWC) of your home country:

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**Brief description of your present work:**

**Briefly state how the training will benefit your present work, your institution and your country:**

**Date and Signature:**

**Approved, supported by:**

Superior or organization, signature and seal

All fields must be filled in clearly, preferably using a typewriter.

Deadline of application: March 15, 2010
Arrival to Finland: July 31 – August 1, 2010.
The applications have to be sent by mail or fax directly to VERIFIN.

Fax: +358 9 19150437
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