



## HYDROAID 2008 – SEVENTH TRAINING PROGRAM

### ON RESEARCH AND MANAGEMENT OF WATER RESOURCES INTENDED FOR ENGINEERS AND MANAGERS

#### CALL FOR APPLICATION



Ministry of Foreign Affairs



CITTÀ DI TORINO

COMPAGNIA  
di San Paolo

FONDAZIONE ICGT



csipiemonte



Università degli Studi di Torino



Politecnico di Torino



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## **HYDROAID- International School of Water for Development**

### **SEVENTH TRAINING PROGRAM - HYDROAID 2008**

#### **BACKGROUND**

Established in Turin in 2001, Hydroaid is a non profit association which involves Local and Regional Authorities, renowned Banks and Academic Institutions of Italy, and is co-financed by the Italian Ministry of Foreign Affairs.

Hydroaid's main objective is training engineers and managers of emerging and/or developing countries in the management of the urban water resources and services and of water in agriculture.

In 6 years of activity, 250 participants from 53 different countries have already graduated.

#### **FEATURES AND PURPOSES OF HYDROAID's TRAINING PROGRAM**

The 2008 Program offers intensive training on the water issues and its different uses, as well as updating on the new technologies for the appropriate management of the resource.

The program aims at a multi-disciplinary approach to the management of water resources and services, alternates theoretical and practical classes and includes more short term and long term visits to significant technical realities of Italy

The 2008 program proposes 3 different parallel courses which deal with the following main themes:

- 1) Management and Governance of the Integrated Water Service Cycle (from October 13<sup>th</sup> to December 12<sup>th</sup> 2008);**
- 2) Management of water resources for soil conservation and agricultural development (from October 13<sup>th</sup> to December 12<sup>th</sup> 2008);**
- 3) Supply Systems for Drinking Water, Irrigation and Sanitation (from October 27<sup>th</sup> to December 12<sup>th</sup> 2008);**

The three courses deal – at a different scale – with issues relevant to the management of the water resource and intend to offer an overview of experiences which may meet different local requirements of development as related to the organization and infrastructural nature of the social and economic fabric of the developing countries.

In order to better orient the objectives, and better respond to the interest of the participants, each course is open to a specific group of countries which present homogeneous features as related to the purposes of the course itself.

For these reasons, the experience acquired by Hydroaid students can be a benefit to their countries of origin.

Top Priority in the attendance to the course shall be given to those who work in either public or private structures for the management of the water resources.

The official language of the program is English.

## **FACULTY**

The teaching staff has been selected amongst lecturers of prestigious Italian and foreign academic institutions, experts of Italian local authorities operating in the management of the water services and professional consultants.

## **LOCATION**

The Course is held in Turin at the International Training Centre of the International Labor Organization (ITC – ILO). Its campus and services provide an ideal environment to live, study and interact with people of different cultures and background.

The participants will be hosted in *double rooms* allocated according to the gender and – whenever feasible – age, country of origin and religion.

The participants are asked to comply with the customary rules of cohabitation in order to allow everybody – including themselves – to enjoy the greatest benefit from this unique experience.

The campus offers services for long stays: bank counter, post office, travel agency, infirmary, bar and free-flow restaurant.

The logistic support is subjected to the conditions proposed by ITC ILO, which has been commissioned by HYDROAID to provide the participants with all those campus services as required for their stay and for the development of the pedagogical activities.

## **SCHOLARSHIP**

The scholarship, which is fully financed by HYDROAID and offered to all the participants, includes:

- board and lodging in the ITC ILO structures;
- travel from and to the country of origin (with the exclusion of stop over expenses, transport from and to the airports, consulate fees, mailing expenses and visas);
- study visits;
- pedagogical material;
- teaching and pedagogical infrastructures;
- medical assistance;
- accident insurance;
- pocket money (For Course n.1 and Course n. 2 an amount of € 315,00 to be intended for the whole duration of the stay, For Course n.3 an amount of € 245,00 to be intended for the whole duration of the stay).

## **SELECTION CRITERIA**

The candidates who express interest to attend the course and send all the documentation requested not later than July 4<sup>th</sup> 2008 shall be selected by HYDROAID on the basis of meritocratic criteria. Because of this we recommend to care about the information provided. Evaluation will be based on the

application forms filled by the candidates; the documents provided (certificates, diplomas etc), the curriculum vitae and of their matching the requirements defined for each of the three courses. Last but not least, when applying, a copy of your passport must be attached and must be valid.

The list of the proposed candidates (evaluated on the bases of meritocratic criteria) shall be finally approved by the Italian Ministry of Foreign Affairs, which is supposed to make the final decision on the admission to the course. Regarding this, it's compulsory to submit your application also to the Italian Embassy represented in your own country. (Link:<http://www.esteri.it/MAE/EN/Ministero/Rappresentanze/default.htm?LANG=EN>).

The final admission is subjected to the issue of the visa

The selection shall exclude all those who have no citizenship and are not living and working in the countries mentioned for each course. Candidates working for International Organizations are also excluded from the selection.

Top priority shall be given to those who work in public or private institutions involved in water resources management. To this purpose, a letter of presentation from the employer will be an asset.

Women's applications are more than welcome and will be taken in due consideration.

## **COURSES ORGANIZATION AND LEARNING PLANS**

The training program is organized in three different learning plans:

- 1) Management and Governance of the Integrated Water Service Cycle;**
- 2) Management of water resources for soil conservation and agricultural development ;**
- 3) Supply Systems for Drinking Water, Irrigation and Sanitation ;**

One week of study visits are planned for the three learning plans.

Six (6) hours per day (from Monday to Friday) of lectures, exercises, laboratory, seminars, case-study development and technical visits are planned for each course.

Attending the lectures is mandatory. Participation to the evaluation tests and final test is mandatory. Attendance at lectures is registered. With the exception of documented and valid reasons, the participant must attend all the lectures. Not behaving accordingly to the afore mentioned rules will imply the cessation of the fellowship and the annulment (revocation) of the visa.

Some meetings with industries operating in the fields of water will be organized during extra hours.

## COURSES DESCRIPTION AND REQUIREMENTS

### 1. Management and governance of the integrated water service cycle

The course will provide methods and issues related to management of integrated water service, with particular reference to large metropolitan areas, as well as an introduction to systems for the governance of water resources (planning, administration, legislation systems). The goal of the course is to provide the state-of-the art of the management and governance of water systems in Italy in a problem-solving context. This can be of interest to developing countries as anticipation of problems and drawbacks of technical solutions in use in Italy, and in the presentation of mature and affordable technologies and management practices.

The topics treated in this curriculum concern: the management of the integrated water cycle, with particular reference to large urban areas; the planning and governance of water resources systems (administration, legislation and control systems); tools for the management (i.e. GIS, hydroinformatics, measurement and control systems) ; the protection of water quality and of the environment; the integrated management of the water resources (including: distribution of drinking water, sewage systems, water sanitation, tariffs and tariff policies, service levels and public relations); the project cycle management and the economic sustainability of investments and services.

This course is particularly indicated for managers of those countries which feature a rather high level of local infrastructures and of the administration system.

#### 2008- Beneficiary countries

**Albania; Armenia; Bolivia; Bosnia Herzegovina; FYR of Macedonia; Georgia; Honduras; Jordan; Lebanon; Montenegro; Palestinian National Authority; FYR of Serbia; Syrian Arab Republic; Ukraine;**

#### Qualification for attendance

The course is open to managers of governmental or local authorities dealing with the management and the planning of the water resources, at a province or large urban scale, with a technical background and a university degree. The age should preferably be under 35.

Number of participants admitted: 12

#### Duration

The program shall last 10 weeks, from October 13<sup>th</sup> to December 12<sup>th</sup>, 2008

#### Macro topics of the course

- . Large-scale and urban planning of the water resources: quality and quantity
- . Strategies and tools for the associated management of the water cycle
- . Tools for the management of the water systems: GIS, hydraulic and hydrologic software
- . Design of water supply and water distribution systems
- . Measurement and control systems in the water cycle
- . Wastewater and drinkable water treatment techniques
- . Management of sanitation plant and service
- . Regulation and tariff systems
- . Investments and economic management of water resources infrastructures and services
- . Project cycle management

## **2. Management of water resources for soil conservation and agricultural development**

This course addresses the relations between water and the other natural resources that are important for environmental conservation in an agricultural context: plants, soils and landscape. During the course, the participants will focus firstly on the general bases of water and land resource management, then they will learn how to deal with processes of land degradation and conservation, both through a farm-based approach, and a more general land-based approach.

The participants will develop their own skills through a combination of theoretical lessons and practicals.

### **2008- Beneficiary countries**

**Afghanistan; Bangladesh; Cambodia; Ghana; Iraq; Mauritania; Morocco; Morocco (Western Sahara); Mozambique; Mauritania, Nepal; Pakistan; Syrian Arab Republic; Vietnam.**

### **Qualifications for attendance**

A university degree - even if bachelor's level - in either Engineering or Agricultural Sciences or Geological Sciences is mandatory. The age should be under 35. Occupation in the management of water services for agriculture, or in a structure allocated to the management of land and/or water is preferred. A good knowledge of English and basic skills in the use of word processors and spreadsheets (e.g. Excel or similar) are required.

**Number of participants admitted:** 12

### **Duration**

The program shall last 10 weeks, from October 13<sup>th</sup> to December 12<sup>th</sup> 2008.

### **Macro topics of the course**

- Water resources assessment
- Water resources infrastructure systems design and management
- Assessment of soil, plant and land properties
- GIS and remote sensing
- Land degradation processes and conservation practices
- Farm-based approach in the sustainable use of resources: best practices for agriculture
- Land-based approach in the sustainable use of resources: management of water resources and land evaluation.

## **3. Supply Systems for Drinking Water, Irrigation and Sanitation**

The topics offer by this curriculum wish to provide technical guidelines, design criteria and basic technologies for the realization of simple systems for drinking and irrigation water supply i.e water captation and supply, management of reservoirs, design and management of hydraulic works, drinking water treatments, basic sanitation.

2008- Beneficiary countries

**Burkina Faso; Democratic Republic of Congo; Ethiopia; Guinea; Guinea Bissau; Liberia; Mali; North Korea; Somalia; Sudan; Timor Leste (East Timor).**

Qualifications for attendance

High school diploma is mandatory; technical bachelor degree is preferable. Age should be under 35. Occupation in local technical services involved in water supply is preferable. A good knowledge of English and basic skills in the use of word processors and spreadsheets (e.g. Excel or similar) are required.

Number of participants admitted: 12

Duration

The program shall last 7 weeks, from October 27<sup>th</sup> to December 12<sup>th</sup>.

Macro topics of the course

- Introduction to water resources assessment
- Water captation
- Small hydraulic works
- Water supply systems design and realization
- Selection of materials and maintenance issues
- International policies on safe drinking water access
- Water systems for agricultural use
- Drinking water treatment and basic sanitation
- Management issues and policies

## **HOW TO APPLY-read carefully in advanced-**

The candidates must select only **one** of the three courses.

**It is mandatory to fill the on-line application form** reported on website [www.hydroaid.it](http://www.hydroaid.it) (<http://www.hydroaid.it/Training/OnlineApplicationForm.cfm>).

*Strictly follow the on line instruction and fill carefully the application form.*

Before starting to fill the application form, scan the following documents (choose to create pdf files):

- highest education certificate obtained;
- passport (valid);
- any other certificates obtained if they are considered as useful for the selection;
- letter of presentation from the employer (option)
- your CV

***Remember to attach these documents to the on-line application form (just follow the procedure on line).***

When the on line application form is ready:

- 1- print a copy of it and of all the documents you attached to it;
- 2- follow the instruction on line to send the application form and the documents attached automatically on line to Hydroaid (mandatory).

N.B. : COMPULSORY - The paper copy of your application form, enclosing all the required documents, must be sent also to the Italian Embassy represented in your Country and/or Region.

Final deadline for submission: July 4<sup>th</sup> 2008

**Remark:** should candidates find it impossible to fill the on-line application form, and under extraordinary circumstances, they can download the application form from our website [www.hydroaid.it](http://www.hydroaid.it), (<http://www.hydroaid.it/Training/OnlineApplicationForm.cfm>) fill it in and send it with the requested documents to Hydroaid with copy to the relevant Italian Embassy in the respective countries by either regular mail\* or fax no later than the indicated date).

\*The documentation by regular mail or fax (+39-011-5693690) is to reach us no later than July 4<sup>th</sup> 2008.

Hydroaid shall inform the candidates as soon as the selection of the attendees is completed (by July 4<sup>th</sup> 2008).

For further information, please contact:

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