# REFRESHER COURSES | 2011

BOLIVIA | ZAMBIA ETHIOPIA | MOZAMBIQUE



### REFRESHER SEMINAR

SERVING MORE WITH LESS: THE CHALLENGE OF SUSTAINABLY MANAGING AFRICAN WATER SUPPLY AND SANITATION ASSETS OF 21TH CENTURY

# ZAMBIA

25 SEPTEMBER-4 OCTOBER, 2011

Water utilities in the third world in general, and specifically in sub-Saharan Africa, are often not equipped to formulate sound maintenance plans, backed by state-of-the-art knowledge and tools. This lack of capacity renders the enormous investments on water infrastructure, mobilized by the MDGs, to be unsustainable. Asset management is an essential component in the maintenance and improvement of services in water utilities. It requires the identification of most critical components of networks, life-cycle cost analysis and minimizing negative impacts of (inevitable) failures. This approach vitally important for the urban centers of the South, as performance demands increasing with population at a phenomenal rate. Often, cities in the South have inherited aging infrastructure systems, incapable of providing minimal level of services.

### PROSPECTIVE PARTICIPANTS

This seminar is meant for mid-career engineers and managers who are/ will be in-charge of maintenance or renewal planning of urban water systems, including water supply and sanitation systems. Asset management is especially relevant in managing under-funded systems like those found in peri-urban poor areas, thus professionals involved in such areas will be given priority.



### **OBJECTIVES**

This seminar will provide an introduction to the principals and practice of asset management contributing to sound maintenance and investment planning decisions based on a rational basis. Participants will learn to:

- explain asset management's critical role in the developing world, including sub-Saharan Africa in preserving investments and providing more people with less resources and less damage to the environment.
- identify situations where asset management can immediately benefit the operation and management of utilities.
- promote gradual improvements over 'demolish and build', and to appreciate the implications on gender and social equity issues,
- identify sources for life-long learning in asset management techniques for urban water and sanitation systems.

Location: Lusaka, Zambia Coordinator: Assela Pathirana

Partners: University of Zambia, Lusaka Water and Sewerage Co. Ltd.

This brochure contains information on the four refresher seminars that UNESCO-IHE will organize in 2011. Information per seminar, such as the background, prospective participants and objectives of the seminar can be found on the other side. For more in-depth information, including facilitators, content & the schedule, please see the refresher seminar pages on our website via www.unesco-ihe.org/refresh.

#### **RECTOR'S INVITATION**

The need for a more integrated approach to water and environmental resources management calls for professionals with a high degree of specialisation, as well as generalists equipped to lead and manage multidisciplinary efforts, individuals and organisations in the water and environment sectors world-wide.

With a UNESCO-IHE degree you will have made a major step in your professional career. No doubt you have increased your expertise, gained insight into the international water arena, and made contacts with fellow professionals from around the globe. Many of you will have reached prominent positions in which strategic, managerial, policy and decision-making components have become major responsibilities of you function.

You will - over time - wish to keep your skills and knowledge up-to-date, to stay in tune with changing professional demands. To cater to this need, the Institutes refresher seminars are held annually on different continents, covering themes of direct relevance to these regions.

I invite you, on behalf of UNESCO-IHE, to join one of the 2011 refresher seminars as described in this brochure and online at www.unesco-ihe.org/refresh.



Professor András Szöllösi-Nagy, Rector





## 2011

Read the information on the seminars carefully, both in this brochure and online, and pick the one of which you meet the criteria (i.e. for your region), and that is most relevant for you.

Take note that you can only register for one seminar, so pick wisely!

The deadline for application is June 15th, 2011.

#### REFRESHER SEMINARS

- Cochabamba, Bolivia, 19 24 September, 2011
   Small Water Supply and Sanitation: Serving the disadvantaged communities in semi-urban and rural areas in developing countries.
- Lusaka, Zambia, 25 September 4 October, 2011
   Serving More with Less: The challenge of sustainably managing African water supply and sanitation assets of 21th century
- Addis Ababa, Ethiopia, 6 16 November, 2011
   Decision Support Systems in River Basin Management.
- Maputo, Mozambique, 14 18 November, 2011
   Management of Climate Change related risks in coastal lowlands: Water allocations for food, people and environment.

### **APPLICATION**

Once you have chosen your preferred seminar, access the online application form through the 'click here to apply for this course' on that seminar's web page. Fill out the form, and submit your information. UNESCO-IHE will now receive your information digitally. You will receive an automated e-mail message confirming your application and listing all your submitted information. UNESCO-IHE will notify you by e-mail two weeks after the application deadline to let you know whether or not your application has been accepted.

### **FELLOWSHIPS**

The Netherlands Government has made full fellowships for a maximum of 20 participants available for each refresher seminar. These fellowships include:

- air travel (economy class) from the nearest international airport in the candidate's home country to the refresher seminar country and vice versa,
- transfer from the airport to hotel and vice versa.
   No other travel costs are refunded,
- accommodation, including meals, for the duration of the seminar, up to a maximum of 15 days in total, depending on the date of arrival in and departure from the hosting country,
- direct visa costs (no related costs, such as travel costs to the Embassy or hotel stay are refunded).

You can only apply for a fellowship only if you:

- work and live in Sub Saharan Africa or Latin America and the Caribbean, and
- received your Postgraduate Diploma course, Master of Engineering, Master of Science or PhD degree at UNESCO-IHE, and
- graduated before or in 2006, and
- studied on an NFP fellowship, and
- have not attended any UNESCO-IHE refresher seminar or UNESCO-IHE short course on an NFP fellowship since 31 December 2008, and
- if your application is endorsed by your employer.

Female participants and applicants who have never participated in one of UNESCO-IHE's earlier refresher seminars will be given preference.



### SELF PAYING PARTICIPANTS

The seminar is open to a limited number of self-paying participants who have the necessary background and work experience, and who are not necessarily alumni. The tuition fee for the seminar is Euro 200, to be paid in advance. This tuition fee covers registration, tuition, and fieldtrips (when applicable), all other costs such as meals, hotel and travel costs are borne by the participant. More details can be provided upon request.

### **SPONSOR**



Nuffic, Netherlands Organization for International cooperation in higher education Increasingly, UNESCO-IHE will keep in touch with all of its alumni through email. If you wish to be kept in the loop on the Institute's staff, students, projects and other interesting information, please keep us updated on your current email address, by sending it to: alumni@unesco-ihe.org

UNESCO-IHE Student Affairs PO Box 3015 2601 DA Delft The Netherlands

T +31 15 215 1715
F +31 15 212 2921
E refresher@unesco-ihe.org
I www.unesco-ihe.org