

Improvement of Drinking Water Quality in Developing Countries: Microbial and Geogenic Contamination

Tuesday, October 5 to Thursday, October 7, 2010

Eawag, 8600 Dübendorf, Switzerland

An event of the series PEAK practice oriented Eawag courses



Eawag: Swiss Federal Institute of Aquatic Science and Technology

Improvement of Drinking Water Quality in Developing Countries: Microbial and Geogenic Contamination

PEAK Advanced Course V31/10

Objectives Participants will learn about microbiological and geogenic (fluoride and arsenic) water quality problems in developing countries. Through a combination of lectures and group work, participants will develop and apply a tool for the assessment of different technologies for chemical and microbiological treatment of drinking water at the household scale. The course will cover technical, institutional, and psycho-social aspects of water quality management.

For whom? The course targets water and sanitation professionals working in strategic planning, design and implementation in developing and emerging countries, who wish to learn more about household drinking water quality. The number of participants is limited to 25.

- Course Subjects**
- ▶ Quality of drinking water in developing countries – problems and appraisal.
 - ▶ Microbial pathogens in drinking water and its devastating health consequences. Household water treatment and safe storage (HWTS) to improve water quality: Slow sand filtration, membrane filtration, chemical treatment and disinfection by solar radiation (SODIS).
 - ▶ Geogenic arsenic in groundwater and the consequences of long lasting consumption of contaminated water. Analysis and mitigation technologies.
 - ▶ Fluoride in drinking water: how can it be controlled where natural concentrations are too high?
 - ▶ Integrated assessment and management strategies for a safe and sustainable provision of drinking water including technical, institutional and psycho-social considerations in water treatment will be presented and discussed.
 - ▶ Group work around case studies allow for interactions and expertise exchange between participants themselves and the facilitators.

Lecturers

Michael Berg, Eawag, Dübendorf
 Tracy Ewen, Eawag, Dübendorf
 Stephan Hug, Eawag, Dübendorf
 Annette Johnson, Eawag, Dübendorf
 Richard Johnston, Eawag, Dübendorf
 Nasreen Islam Khan, Eawag, Dübendorf
 Regula Meierhofer, Eawag, Dübendorf
 Hans-Joachim Mosler, Eawag, Dübendorf
 Maryna Peter, Eawag, Dübendorf
 Wouter Pronk, Eawag, Dübendorf
 Hong Yang, Eawag, Dübendorf

Cover photo: Water kiosk Bila Shika (Photo: Eawag)

Information Dr Richard Johnston, Eawag, Dübendorf, Telefon 044 823 50 11, richard.johnston@eawag.ch
 Dr Annette Johnson, Eawag, Dübendorf, Phone 044 823 54 86, annette.johnson@eawag.ch

Course Documentation The participants will receive course documentation.

Course Language The course will be conducted in English.

Confirmation The participants will receive a course certificate.

Course Secretariat and Registration Eawag, PEAK, P.O. Box 611, 8600 Dübendorf, Phone +41 (0)44 823 53 93, Fax +41 (0)44 823 53 75, susanne.benz@eawag.ch or www.peak.eawag.ch

Course Fee CHF 900.–. The fee includes taxes, course documentation, lunch and coffee breaks. Other meals and hotel accommodation are not included.

Date, Time Tuesday, October 5, 2010, from 9.00 to 17.30 h
 Wednesday, October 6, 2010, from 8.30 to 17.30 h
 Thursday, October 7, 2010, from 8.30 to 16.30 h

Location Eawag
 Überlandstrasse 133
 8600 Dübendorf

Eawag is an internationally-renowned Swiss federal research institute. It is part of the ETH domain and is dedicated to research, teaching and consulting. Eawag is entrusted by the Swiss government with ensuring the continuous improvement of concepts and technologies for the sustainable use of water resources, while striving to harmonise ecological, economical and social interests of water and aquatic ecosystems. Eawag acts as an important link between basic research and practical application. About 400 staff are employed by Eawag in Dübendorf (near Zurich) and Kastanienbaum (near Lucerne). Eawag was founded in 1936 as a consulting body.

www.eawag.ch

1993 Eawag started its environmental continuing education program **PEAK** (practice oriented Eawag courses) where Eawag's own research results and experiences are presented to professionals from industry, government, and science. The 5 to 10 courses which are given annually serve also as a forum for the dialogue between scientists and professionals and among the participants themselves. www.peak.eawag.ch

Please stamp

Eawag
PEAK
Postfach 611
8600 Dübendorf

Registration

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Please send me the Hotel list.

Name _____

First Name _____

Organization _____

Address _____

Phone _____

E-Mail _____

Date _____

Signature _____

Billing address _____

Please mail or fax this form to:

Eawag, PEAK, P.O. Box 611, 8600 Dübendorf, Switzerland, Fax +41 (0)44 823 53 75

Eawag, Überlandstrasse 133, 8600 Dübendorf

