TASK Training Course 11./12.04.2011 Frankfurt (Main)

Application and evaluation of Integral Pumping Tests (IPTs) with the software CSTREAM

Invitation

The Terra-, Aqua- and Site Remediation Centre of Competence Leipzig - TASK promotes the national and international transfer of innovative technologies and concepts in the fields of soil, groundwater remediation and site revitalization. On the occasion of the completion of the new update "conditioning with point concentrations" for the IPT evaluation software *CSTREAM,* TASK cordially invites you to attend our training course with the following speakers, which are involved in recent IPT research activities:

Prof. Dr.-Ing. Thomas Ptak

University Göttingen

Dr. Marti Bayer-Raich

Amphos 21 Consulting S.L., Barcelona

Dr. Sebastian Leschik

Helmholtz-Centre for Environmental Research – UFZ, Leipzig

IPT-Method

IPTs can be used to investigate the groundwater at contaminated sites with a high accuracy. In comparison to classical investigation methods, contaminant mass flow rates from IPT applications are not determined from point measurements but rather from large sampled groundwater volumes. Additionally, IPTs can be used to estimate the location of a contaminant plume. The accuracy of the estimation of the plume location can be improved by considering point concentrations (e.g. from direct-push samplings).

Course contents

The course offers an introduction to the dimensioning, operation and evaluation of IPTs. The main focus is on the analytical and numerical evaluation with the software *CSTREAM.* On the basis of typical application examples the participant is stepwise introduced to the IPT evaluation.

The course materials contain the software *CSTREAM* (including the update for the conditioning of IPT results with point concentrations) for further utilization.

Program

Monday 11.04.2011

11:00 Basics of IPT application

12:30 Lunch break

13:30 Basics of IPT application

15:00 Coffee break

15:15 Application examples for IPTs

16:30 Analytical evaluation of IPTs, (practical exercise)

18:00 End of the first course day

Tuesday 12.04.2011

9:00 Numerical evaluation of IPTs (practical exercise)

10:30 Coffee break

10:45 Numerical evaluation of IPTs, (practical exercise)

12:30 Lunch break

13:30 Conditioning with point concentrations (practical exercise)

15:00 End of the second course day

Meeting place

Hotel National, Baseler Str. 50, 60329 Frankfurt (Main), Germany, directly at the main station

Registration

The registration for the IPT course can be completed until **29.03.2011** via E-mail with name, address and institution to martina.baeuckert@ufz.de.

The course fee of **150 EUR** (reduced: 75 EUR) must be transferred after reception of the registration confirmation. The course fee comprises course materials with the software *CSTREAM* (including the update "conditioning with point concentrations"), lunch and break beverages.

Hints

The course languages are German and English. For the practical exercises the participants should bring a notebook with the program MODFLOW-96 including a graphical user interface such as Processing Modflow or Visual Modflow (knowledge in the program handling is necessary) and the program SURFER to the course.

More information about TASK:

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