

Training course @ TU Dresden May 19th-21st

Water resource management with the FREEWAT platform integrated in QGIS

Within the project H2020 FREEWAT (FREE and open source software tools for WATER resource management), the course “Water resource management with the FREEWAT platform integrated in QGIS” aims at presenting the modules integrated in FREEWAT, a free and open source simulation platform, integrated in QGIS, for water resource management.

More information about FREEWAT at www.freewat.eu.

Goals and teaching materials

Participants to this course will have the opportunity, through the completion of practical exercises, to acquire or strengthen skills in using QGIS, to acquire the theoretical concepts and become familiar with the modeling tools integrated in FREEWAT for: (i) simulating groundwater flow and the interaction with the surface water; (ii) managing hydrochemical and time series data; (iii) simulating solute transport and the joint use of surface water and groundwater for water resource management.

The following training material will be provided for free:

- the FREEWAT software;
- user manuals;
- theoretic lectures;
- tutorials and related data sets.

Course carrying out

The course is divided in two parts:

- the first part will take place remotely designed as self-study and will be devoted to acquire (or refresh) the basics of numerical modeling for the simulation of groundwater flow and the interactions with surface water, and to get acquainted with software tools for management of hydrochemical and time series data. For this purpose, tutorials (including slides and data sets) will be provided. Participants will perform tutorials autonomously. Technical support will be guaranteed via email, phone or skype;
- during the second part, designed as Workshop, lectures will be delivered to present and discuss FREEWAT modules for groundwater flow as well as the simulation of solute transport processes, saltwater intrusion and the conjunctive use of ground- and surface-water for water resource management in rural environments.

The Workshop will be hosted by the Center for Advanced Water Research (CAWR) and delivered @ TU Dresden on May 19th–21st. Workshop hours are currently scheduled as: May 19th: 2 PM–6 PM; May 20th: 8 AM–6 PM; May 21st: 8 AM–12 noon).



www.tu-dresden.de



www.cawr.de



www.santannapisa.it



www.tu-dresden.de

Application procedure and further info

Participation to this course is free of charge. The number of seats for lectures is limited. Registration is mandatory. Please, send an email until May 12th to Thomas Reimann (Thomas.Reimann@tu-dresden.de) providing the following information :

- Name and Surname;
- Affiliation;
- Preference regarding the advanced topics presented during the lectures (e.g. (a) solute transport; (b) salt-water intrusion; (c) rural water management, (d) please specify).