



Online Course 2020

from 1st APRIL 2020 to 31st MARCH 2021

Groundwater Numerical Models and How to Make them Useful

Second edition

Instructors

John Doherty
Francesca Lotti
Giovanni Formentin



Course Overview

The course covers a wide range of topics, from GIS data processing to the most advanced calibration and uncertainty analysis techniques through **PEST** and **PEST++** suites. The course targets those who develop, calibrate, deploy and rely on models to support environmental decision-making as well as water resources managers, stakeholders and anyone who wishes to better understand what groundwater modelling can, and cannot, offer to the decision-making process.

The **first module** deals with data processing, geostatistics and the basics of modelling, introducing the first concepts of automated model calibration through PEST.

The **second module** focuses on model calibration. This will be undertaken by using both PEST and the new ensemble smoother available through the PEST++ suite. These programs will be used from both the command line and from the *Groundwater Vistas* Graphical User Interface. The basic instructions will be provided on command line use. PEST support utilities will be also demonstrated.

The **third module** focuses on uncertainty analysis and on its application to decision-support modelling; dedicated software from the PEST and PEST++ suites will be explained and used in real-world exercises.

Q&A live sessions will be performed periodically to answer doubts, share and comment the results of given exercises. Furthermore, participants will have the chance to share their own projects, receiving advice from the instructors. Of course, the aim of these live sessions is also to get to know each other!

Course access

- 1 year from the 1st of April 2020
- 30% discount for the following Course editions

What's included

- Continuous updates of the course contents (new examples, videos, case studies, etc.)
- 6 months of *Groundwater Vistas 7* Licence
- Monthly Q&A live sessions

On request

- Individual live sessions
- *Groundwater Vistas 7* technical support & trouble shooting
- 20% discount on the everlasting GVW7 license

Language

- English

Registration & fees

- 1200€ + VAT (if due)
- Students: 900€ + VAT (if due)

**Deadline to subscribe
March 31, 2020**

Course programme

formazione@kataclima.com - See the course [FAQ!](#)