

# Seminario “Introduction to Geochemical Modeling and PHREEQC”

## First day

- 1 Introduction to Geochemical Modeling and PHREEQC
- 2 Fixing phases, PHASE RULE, REACTION  
Exercises
- 3 Redox Chemistry
- 4 Database Issues  
Exercise
- 5 Coprecipitation  
Exercise

## Second day

- 1 Surface Complexation (Sorption)  
Exercise
- 2 Kinetics  
Exercise 6: Kinetics
- 3 Eh-pH Diagrams, PhreePlot  
Example

## Software:

PHREEQC Version 3

<https://www.usgs.gov/software/phreeqc-version-3/>

PHREEQC version 3.6.3 with (adapted) Notepad++ version 6.6.9

<https://www.hydrochemistry.eu/ph3/phreeqc3.Installer.exe>

PhreePlot

<http://www.phreeplot.org/index.php>

PHREEQC for Windows, a graphical user interface for PHREEQC-2

<http://pfw.antipodes.nl/download.html>