

- Faculté des sciences
- www.unine.ch/sciences

Alluvial aquifer systems: from quaternary geology to surface water-groundwater interactions (3GH2168)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Master en hydrogéologie et géothermie	Cours: 40 pg	Voir ci-dessous	4

ph=période hebdomadaire, pg=période globale, j=jour, dj=demi-jour, h=heure, min=minute

Période d'enseignement:

- Semestre Automne

Equipe enseignante

S. Wirth, G. Preisig, P. Brunner, D. Hunkeler, C. LeBayon, F.S. Anselmetti

Objectifs

The goal of the course is to illustrate the formation, importance and functioning of alluvial aquifer systems.

Contenu

Introduction to Quaternary geology
Sedimentary processes leading to the formation of alluvial aquifer systems
Soil formation and the role of soil and vegetation for groundwater dynamics and water quality
Surface water-groundwater interactions
River renaturation in the context of alluvial systems
The importance of alluvial systems for water supply

Forme de l'évaluation

Written exam at the end of the course.

Documentation

Handouts of presentations provided on Moodle.

Pré-requis

Introduction to hydrogeology

Forme de l'enseignement

Courses and excursions