

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

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
<b>Master en hydrogéologie et géothermie</b>	<b>Cours: 40 pg</b>	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

**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**

CA graded.  
Written test at the end of the course.

Retake attempt: must be registered at other exams session same year and coordinated with professor. (not in Pidex)

**Documentation**

Handouts of presentations provided on Moodle.

**Pré-requis**

Introduction to hydrogeology

**Forme de l'enseignement**

Courses and excursions