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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, P. Brunner, D. Hunkeler, M. Schirmer, C. LeBayon

**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:**

marked assignment. If the assignment is insufficient, an oral exam (20 min) will be organised for the next exam session.

**Documentation:**

Handouts of presentations, documentation of the excursions

**Pré-requis:**

Introduction to hydrogeology

**Forme de l'enseignement:**

Courses and excursions