

## Laurent SCHMITT

**Birthday:** 23.09.1969

**Position:** Professor, exceptional class

**Affectation:** University of Strasbourg

**Laboratory:** LIVE Laboratoire Image Ville Environnement UMR 7362 CNRS - UNISTRA – ENGEES

**Section 33 CNRS (*Hommes et milieux : évolution, interactions*) - Collège A2 (Pr)**

## Academic career

**2011-: Pr., University of Strasbourg**

**2002-2011: Maître de conférences (assistant Professor), University Lyon2**

**Habilitation:** SCHMITT L., 2010. Dynamique fluviale et gestion environnementale durable des hydrosystèmes. Application à une grande plaine alluviale (Rhin-Ill, Alsace) et à un hydrosystème périurbain (Yzeron, Ouest lyonnais). HDR, Université Lyon 2, UMR 5600 CNRS, 3 volumes.

**PhD:** SCHMITT L., 2001. Typologie hydro-géomorphologique fonctionnelle de cours d'eau. Recherche méthodologique appliquée aux systèmes fluviaux d'Alsace. Doctorat, Université Louis Pasteur, Faculté de Géographie et d'Aménagement, Centre d'Etudes et de Recherches Eco-Géographiques Fre 2399 CNRS, 217 p. + ann.

**Main areas of research:** river science, fluvial geomorphology, fluvial palaeo-environments, alluvial geo-archaeology, river sediment transport, river management and restoration, hydro-ecology. Study areas: French Rhine and Moselle basins, Nile basin, Rhône basin, Italian coastal rivers (Po, Tiber, etc.), Amazon basin.

**Academic recognition:** Congés pour Recherche et Conversion Thématique (CRCT): 1 semestre 2007-2008 and 2015-2016; Délégations CNRS: 2019-20 (1 semestre) and 2020-2021 (2 semesters) ; Prime d'Encadrement Doctoral et de Recherche (PEDR) : 2012-2016, 2016-2020, 2020- (stopped at 2021 due to the position of Vice-presidency); Prof. 1<sup>st</sup> class : 2015. Prof. exceptional class: 2020.

**Teaching:** 3380 hETD since 2000.

**Doctoral supervising and co-supervising:** 11 former PhD candidates, 2 current PhD candidates.

**Post-doc supervising and co-supervising:** 4 former post-docs, 3 current post-docs.

**Research programs since 2015:**

- total amount of programs (past and ongoing): 2 186 k€ HT
- total amount of ongoing programs: 408€ HT
- programs that I coordinate or have coordinated: 24 programs (1 923 k€ HT) – CNRS PRIME 80, fonds européens FEDER, Région Grand Est, IDEX Unistra, ZAEU, EDF, Agence de l'eau Rhin-Meuse, DREAL Grand Est, Voies navigables de France, Ville de Strasbourg, etc.
- programs in which I participate or have participated: 9 (263 k€ HT) – ANR Autriche, INTERREG Rhin supérieur, conseil scientifique de l'ENGEES, IDEX Unistra, etc.

## Main academic responsibilities / Member of evaluating comities

Member of the CNRS National Committee, *Section 31 « Hommes et milieux : évolution, interactions »* (2012-2016)

Co-director of the *Laboratoire Image Ville Environnement*, CNRS-Unistra-ENGEES (2013-2017)

ANR and AERES expert (2012, 2013), IRSTEA expert (2013), evaluation of CIFRE PhD projects (2012-2013)

Co-director of the Doctoral School "Earth and Environmental Sciences" N° 413 (2018-2021)

Member of the Research Commission of the University of Strasbourg (2017-2020)

Co-direction of the Research Initiative in Sustainability and the Environment (RISE – *FERED in French* 2021-2024)

Vice-President in Sustainable Development and Societal responsibility at the University of Strasbourg (2021-2025)

## **Publications, conferences**

### **International peer-reviewed journals: 66 articles (+ 2 submitted, major revision)**

#### **Selection of some articles:**

1. EUZEN C., CHABAUX F., RIXHON G., PREUSSER F., EYROLLE F., CHARDON V., ZANDER A. M., BADARIOTTI D., **SCHMITT L.**, 2024. Innovative multi-method geochronological approach to decipher (sub-)modern floodplain sedimentation (Upper Rhine, France). *Quaternary Geochronology*, 101561.
2. ABDULKARIM M., **SCHMITT L.**, FÜLLING A., RAMBEAU C., ERTLEN D., MUELLER D., CHAPKANSKI S., PREUSSER F., 2024. Late Glacial to Holocene fluvial dynamics in the Upper Rhine alluvial plain, France. *Quaternary Research*, 121, 109-131.
3. JAUTZY T., RIXHON G., BRAUCHER R., DELUNEL R., VALLA P. G., **SCHMITT L.**, ASTER Team, 2024. Cosmogenic (un-)steadiness revealed by paired-nuclide catchment-wide denudation rates in the formerly half-glaciated Vosges Mountains (NE France). *Earth and Planetary Science Letters*, 625, 118490.
4. JÉZÉQUEL C., OBERDORFF T., TEDESCO P. A., **SCHMITT L.**, 2022. Geomorphological diversity of rivers in the Amazon Basin. *Geomorphology*, 400, 108078.
5. DENDIEVEL A.-M., GROSOBOIS C., AYRAULT S., EVRARD O., COYNEL A., DEBRET M., GARDES T., EUZEN C., **SCHMITT L.**, CHABAUX F., WINIARSKI T., VAN DER PERK M., MOURIER B., 2022 - Key factors influencing metal concentrations in sediments along Western European Rivers: a long-term monitoring study (1945-2020). *Science of the Total Environment* 805, 149778.
6. ESCHBACH D., **SCHMITT L.**, IMFELD G., MAY J.-H., PAYRAUDEAU P., PREUSSER F., TRAUERSTEIN M., SKUPINSKI G., 2018. Long-term temporal trajectories to enhance restoration efficiency and sustainability on large rivers: an interdisciplinary study. *Hydrology and Earth System Sciences, Hydrol. Earth Syst. Sci.*, 22, 1–21.

### **National peer-reviewed journals: 9 articles**

#### **Books: 1**

CARBIENER R. and **SCHMITT L.**, 2022. Rhin vivant. Histoire du fleuve, des poissons et des hommes. Editions La Nuée Bleue, 287 p. (collaboration : SCHNITZLER A., DUMONT S., LACOUMETTE G.).

### **Peer-reviewed book chapters: 17 chapters**

### **Proceedings of conferences and workshops: 20**

### **Talks and posters presented at international conferences: 69**

### **Talks and posters presented at national conferences: 42**

### **Research reports, management guides: 38**

### **Organized workshops and fieldtrips: 60**

### **Invitations to conferences and workshops (international and national): 21**

**Evaluation of articles in peer-reviewed journals:** *Scientific Report, The Holocene, Geomorphology, Earth Surface Processes and Landforms, Journal of Environmental Management, E&G Quaternary Science Journal (EGQSJ), Ecohydrology & Hydrobiology, Progress in Physical Geography, Water Science and Technology, Quaternaire, Géomorphologie : Relief, Processus, Environnement, Norois, Techniques Sciences Méthodes, Géocarrefour, Annales de Géographie.*

### **Member of the scientific/organization committees of international/national conferences: 6**