

Enseignant chercheur

M. Marc Desmet

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Discipline(s)

Terre solide : géodynamique des enveloppes supérieures, paléobiosphère

Discipline(s) enseignée(s)

Sédimentologie et géochimie fluviale Ecole numérique de cartographie géologique

Thèmes de recherche

Activités / CV

Professor of Earth sciences - Hydrosedimentary functioning & pollution of large rivers

Vice President for International affairs

Director of GéHCO Laboratory

- **Academic education**

1996 PhD in earth sciences, University of Strasbourg

PALEOCEANOGRAPHY OF THE EAST-EQUATORIAL PACIFIC : CLIMATIC CONTROL OF THE BIOGENIC SEDIMENTATION

2006 Research habilitation in earth sciences, University of Savoie

ALPINE SEDIMENT LAKES : ARCHIVE OF CLIMATE AND HUMAN ACTIVITIES OVER THE LAST 15 000 YEARS

- **Research career**

Since 2009 Professor at the Tours University focusing on fluvial sedimentology and organic compounds in hydrosystems

1996-2009 Assistant professor at Savoie University, focusing on lacustrine sediments, human impact and climate of the past

Award for Scientific Excellence - PEDR

h-index = 22 according to Google scholar, 1170 citations

- **Publications 2015**

Van Metre, P.C., Babut, M., Mourier, B., Mahler, B., Roux, G., Desmet, M. 2015. Declining Dioxin Concentrations in the Rhone River Basin, France, Attest to the effectiveness of emissions controls. Environmental Science & Technology, 49 (21), 12723–12730.

Bertrand, O., Mondamert, L., Grosbois, C., Dhivert, E., Bourrain, X., Labanowski, J., Desmet, M. 2015. Storage and source of polycyclic aromatic hydrocarbons in sediments downstream of a major coal district

in France. *Environmental Pollution*, 207, 329-340.

Foucher, A., Laceby, P., Salvador-Blanes, S., Evrard, O., LeGall, M., Lefevre, I., Cerdan, O., Rajkumar, V., Desmet, M. 2015 Quantifying the dominant sources of sediment in a drained lowland agricultural catchment: The application of a thorium-based particle size correction in sediment fingerprinting. *Geomorphology*, 250, 271-281.

Gay, A., Cerdan, O., Mardhel, V., Desmet, M. 2015. Application on an index of sediment connectivity in a lowland area. *J. Soils Sediments*. 3, 1-14.

Dhivert, E., Grosbois, C., Coynel, A., Lefèvre, I., Desmet, M. 2015. Influences of major flood sediment inputs on sedimentary and geochemical signals archived in a reservoir core (Upper Loire Basin, France). *Catena* 126, 75–85.

Dhivert, E., Grosbois, C., Rodrigues, S., Desmet, M. 2015. Influence of fluvial environments on sediment archiving processes and temporal pollutant dynamics (Upper Loire River, France). *Sci. Tot. Env.* 505, 121-136

- **PhD students supervision**

1998-2001 V. Lignier, Lacustrine sediments and paleoseismicity records

2000-2003 F. Arnaud, Climatic and anthropic signature of holocene sediments f

2002-2005 J. Nomade, Chronology and sedimentology of Annecy Lake infill

2003-2006 A.S. Perroux. Endokarstic characterisation of sedimentary deposits

2011-2014 E. Dhivert, Metallic contamination archiving in the Loire basin

2011-2015 A. Foucher, Source to sink sediment processes in an lowland catchment

2011-2015 A. Gay, Landscape connectivity of the Loire basin

2014-2016 F. Degan, Soil resilience in agricultural lowlands area

2015-2018 SP Saravanan, pollution of urban rivers in Chennai

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