



**ERIC VAN HULLBUSCH**

*From France to Sweden*



Project: **Metal speciation and bioavailability in anaerobic digestion**

Research topic: **Chemistry**

Swedish Institution: **Linköping University**

French Institution: **University Paris-Est**

Dates of mobility: **18/10/2015 to 24/10/2015**

Program: **SFVE-A (ex-TOR)**



## PRESENTATION

[Eric van Hullebusch](#) is Professor in Biogeochemistry at [University Paris-Est](#). He obtained his PhD in Aquatic Chemistry and Microbiology from the [University Limoges](#) in 2002 and was habilitated in 2012 at the University Paris-Est. His research interests are metals and metalloids biogeochemistry in engineered ecosystems (e.g. anaerobic digesters) mainly dedicated to wastewater; living organisms on the weathering of materials and minerals; and soil remediation (advanced oxidation processes).

## ACTIVITIES IN SWEDEN

Van Hullebusch travelled to Linköping University ([LiU](#)) for a workshop entitled “Trace Elements and Organic Matter Biochemistry in Anaerobic Digestion”, organized by staff members of the Department of Thematic Studies – Environmental Change ([TEMA M](#)). He held three presentations, on trace metals fractionation and speciation in anaerobic digestion ecosystems, organic matter transformation and characterization in anaerobic digesters, and methodology for characterizing SMP and EPS in bioreactors. He met with among others Assc. Prof. [Annika Björn](#) (LiU), [Lukla Safaric](#) (LiU), Prof. Em. [Bo Svensson](#) (LiU), Prof. [Ulf Skjellberg](#) (Swedish Agricultural University [SLU](#)), [Anna Schnürer](#) (LiU/SLU), Assc. Prof. [Anna Neubeck](#) ([Uppsala University](#)) and Assc. Prof. [Sepehr Shakeri Yekta](#) (LiU). He also had the opportunity to visit the Scandinavian Biogas Fuel Company ‘[Biokraft](#)’ and the biogas plant at [Tekniska Verken AB](#).

A number of collaborations were envisaged, such as student exchanges and an Erasmus+ agreement, an application for beamtime at [Synchrotron Soleil](#) for the study of speciation of iron and sulphur in digesters and an application for European Industrial Doctorates ([EID](#)) connected to the Biogas Research Center ([BRC](#)) in the framework of [Horizon2020](#), the co-authorship of a review paper on trace element bio-uptake in anaerobic digestion ecosystems.