



Summer school 2008 September 8th-19th

Functions of microbial communities in soils: impact of anthropisation and sustainable use.

We are pleased to inform you that following the last edition held in 2006 in München (Germany) a new edition of the French–German Summer school supported by the French–German University, the Lorraine doctoral school (CRED), the UE network EVOLtree and devoted to the Functions of Microbial Communities in Soils will be held from September 8th to September 19th in Nancy (France). The aim is the presentation and discussion of the newly acquired knowledge on the ecology (dynamics and functions) of microbial communities in soils of different use and contamination (forest, agricultural, urban and strongly anthropic e.g. post industrial soils).

The lectures, seminars, practical works and discussion will concern the impact of different levels of anthropisation of soils and their sustainable use in relation to environmental and social-economical functions of the soils. They will concern main microbial functions in relation to the different habitats and niches and also to human activities and will present new knowledge and major methodological progresses in fields of molecular and immunological research (genomic, proteomic, signalling).

Morning lectures will be followed by practical sessions (field measurements or analysis from pre-installed incubations and demonstration) and visits of experimental and field sites (forest and post industrial soils).

The topics will be the following and will focus on the current methodological possibilities in environmental microbiology:

- Nitrogen cycle in soils at different levels of anthropisation
- Redox gradients (from oxic to anoxic)
- Different associations and functions in the rhizosphere
- Transformation of organic substances (natural and from anthropic origin)
- Microbial communities and gene transfer
- Microbial communities at different habitat scales and expressions of functions
- Microbial communities and behaviour of pollutants.

Location:

LIMOS, Nancy Université–CNRS, UMR 7137, Faculté des Sciences, BP 239, Boulevard des Aiguillettes, 54 506 Vandoeuvre-les-Nancy, France.

Organisation committee:

Dr. J. Berthelin, Nancy University–CNRS, LIMOS, Nancy, France

Dr. C. Leyval, Nancy University–CNRS, LIMOS, Nancy, France

Dr. T. Beguiristain, Nancy University–CNRS, LIMOS, Nancy, France

Dr K. Pritsch, Soil Ecology, Helmholtzzentrum München, Neuherberg, Germany

Dr M. Schloter, Soil Ecology, Helmholtzzentrum München, Neuherberg, Germany

Prof. Dr. J.C. Munch, Tech. Univ. Munich & Helmholtzzentrum München, Neuherberg, Germany

The sessions are led by a team of German and French lecturers and will be of interactive nature. PhD students, postdocs and scientists who are entering the field or want to deepen their knowledge of the subject are invited to apply for participation. The summer school registration fees are free. Accommodation can be provided at reasonable price levels. For programme, detailed information and registration (deadline for application: **May 31st**), please contact Thierry Beguiristain (thierry.beguiristain@limos.uhp-nancy.fr). List of selected participants will be available by June 10th.