Summer school: Aquatic eco(system)toxicology

Supervision: Prof. Dr. Christoph Schäfers (University of Münster) & Prof. Dr. Christian Schlechtriem (University of Siegen)

The lectures are held in English and are supported by experienced scientists of Fraunhofer IME, Schmallenberg

Classification: Advanced module

Semester SoSe 2016

Students: BSc Chemistry, MSc Chemistry, MSc Biology...

Date 29.08. 2016 to 09.09.2016

Ort/Location: Schmallenberg, Fraunhofer IME

Beginn/Start: 29.08.2016; 10:00

Pre-requisite knowledge: Basics in Chemistry, Ecology, Physiology

For registration please send an e-mail to christian.schlechtriem@ime.fraunhofer.de

Aims: Introduction to various subjects and issues related to the field of ecotoxicology. Overview of scientific methods and their regulatory acceptance.

Lectures: Concepts and methodological approaches of ecotoxicology, environmental chemistry, exposition models, biodegration, uptake and bioaccumulation, structure-effect relationships.

Aquatic ecotoxicology: test methods, statistical evaluation method, mesocosm studies, higher-tier approaches, effect modelling, endocrine disruptors, nanomaterials, monitoring. Terrestrial ecotoxicology

Practical training: Demonstration of complex testing systems, practical exercises (aquatic ecotoxicity tests with standard organisms, data evaluation, hazard and risk assessment of chemicals). Training course report.

Seminar: Number of participants 8 (University of Siegen)
Preparation of a seminar presentation and report based on supplementing literature.
Topics will be announced prior to the course.

Examination: Seminar report and training course report

Credit points: 6KP

Further information on request to help you plan your stay in Schmallenberg.

Prof. Dr. Christian Schlechtriem

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