



UNIVERSITÄT
KOBLENZ · LANDAU
Campus Landau



International Summer Academy on

**Spatial Ecotoxicology
and Ecotoxicological Risk
Assessment - Using an Open
Community Approach**

A two-week course from
11 - 24 September 2017



■ ■ Spatial Ecotoxicology

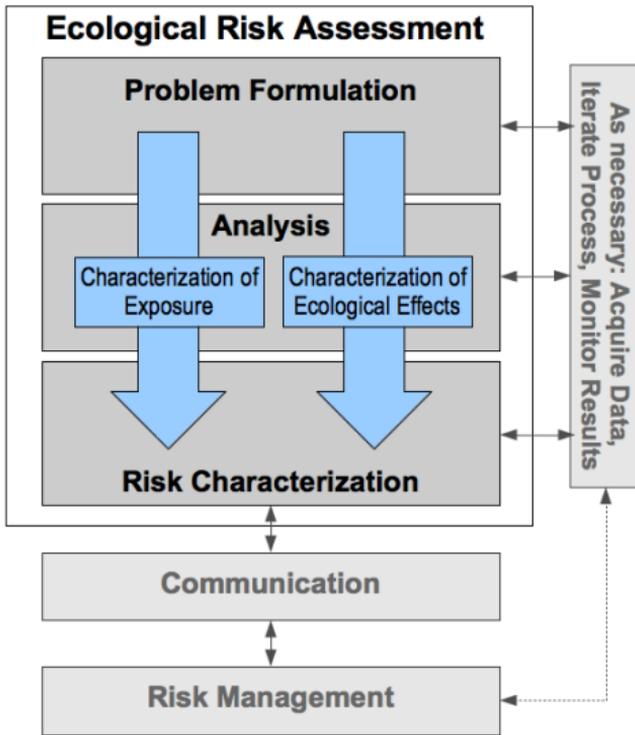
An increasing number of chemical substances are being released into our environment. Developing countries are particularly affected with high contamination, but often have inadequate control mechanisms and insufficient resources for risk assessment.

Spatial analysis offers more and more applications and potential within ecological risk assessment. The growing Open Community Approach makes this technology available for everybody.

Experts of various disciplines from national and international institutions will combine basic concepts of ecotoxicology with methods of geographic information system analysis. This will be illustrated by practical examples, both in the field and at the computer.

■ ■ Course Objective

The 'International Summer Academy on Spatial Ecotoxicology and Ecotoxicological Risk Assessment - Using an Open Community Approach' gives an overview of ecotoxicological risk assessment with focus on the use of freely available methods and resources for remote sensing and spatial analysis using GIS. The course provides young scientists with inexpensive tools and programs that are oriented for use in both developing and developed countries.



Social Program

In addition to the academic courses, a social program combines historical, cultural and nature aspects of the Palatinate and Germany and offers excursions to nature protection areas, historic towns and castles (Heidelberg, Wissembourg) as well as various evening events.

Participants can also visit the various local activities and traditional wine festivals in the surrounding villages at their own expense.



Course program

The course program is based on the European and U.S. Framework for Ecological Risk Assessment and contains the following modules:

1. Problem formulation
2. Hazard assessment of chemical stressors
3. Characterization of effects on One Health
4. Pesticide pollution and vulnerability concepts
5. Earth-to-space-based observing systems for environmental risk assessment and disaster management
6. Use of Open Source spatial analysis tool
7. Open community approach in One Health risk mapping
8. Creation of global pesticide application maps
9. Risk assessment and data availability in developing countries

Experts from different national and international disciplines and institutions conduct the course:

- Institute for Environmental Sciences and Institute for Mathematics, University Koblenz-Landau
- Institute for Environment and Human Security, United Nations University (UNU-EHS), Bonn
- Council for Scientific and Industrial Research, South Africa
- Swedish University of Agricultural Sciences, Uppsala

Spatial Ecotoxicology



Application Requirements

Target group: Young foreign and German researchers, graduate or advanced students who reside in a developing country facing severe environmental contamination or have a professional relation to this topic.

Requirements:

- Bachelor's or Master's degree in natural sciences or an equivalent qualification,
- Basic knowledge in GIS and methods for remote sensing,
- English language skills at minimum level B2,
- Motivation for participation.

Dates and Registration

The course takes place 11 - 24 September 2017. Registration deadline is 1 May 2017. Exact dates on www.summeracademy-landau.de

Course fee: 700 EUR, including registration fee, course materials, accommodation and social program.

Participants from ODA countries (eligible to receive Official Development Assistance) can apply for a scholarship (travel costs, course fee) thanks to funding by the DAAD.

ECTS-Credits

Up to 5 ECTS credit points can be awarded. Registration as short-term student is required.



Contact



Institute for Environmental Sciences Landau
University of Koblenz-Landau
Fortstrasse 7
D-76829 Landau / Pfalz
Germany

sommerakademie@uni-landau.de
www.summeracademy-landau.de

Funded by the DAAD with financial support
from the Federal Foreign Office.

DAAD

Deutscher Akademischer Austausch Dienst
German Academic Exchange Service

In cooperation with Action Team 6 Follow-Up
Initiative (AT6FUI) of the United Nations
Office of Outer Space Affairs (UNOOSA).