





Application Requirements

Target group: Young foreign and German researchers, graduate or advanced students who reside in a developing country with strong pesticide 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 of participation.



Registration

Registration deadline: **May 19, 2013**Application via www.summeracademy-landau.de

Cours fee: **800 EUR**, includes registration fee, course materials, accommodation and social programme

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



ECTS-Credits

Up to 5 ECTS credits can be awarded.



Contact



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International Summer Academy on Spatial Ecotoxicology and Ecotoxicological Risk Assessment -Using an Open Community Approach

9. - 22. September 2013

Campus Landau/Pfalz, Germany









Spatial Ecotoxicology

An increasing number of chemical substances are being released into our environment. Particularly affected are developing countries with high contamination but often 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 with practical examples, both in the field and at the computer.

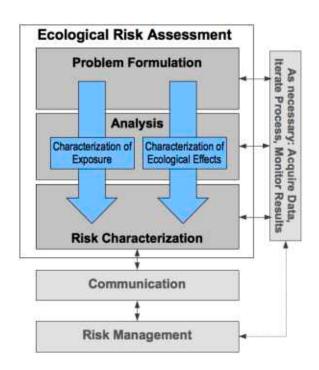
Course Objective

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

Social programme

In addition to the academic courses, a social programme combines history, culture and nature of the Palatinate and Germany and offers excursions to different nature protection areas, Heidelberg, historic towns and castles as well as various evening events.

Besides, participants can visit the various local activities such as cinema, theatre, museums, and traditional wine and fall festivals in the surrounding communities at their own expense.



Course Programme

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

- 1. Problem formulation
- 2. Hazard assessment of chemical stressors
- 3. Characterisation of effects on One Health
- 4. Pesticide pollution and vulnerability concepts
- 5. Earth-to-space-based observing systems for environmental risk assessment
- 6. Use of free Open Source spatial analysis tool
- 7. Creation of global pesticide application maps
- 8. Open community approach in One Health risk mapping
- 9. Risk assessment and data availability in a developing country, El Salvador
- 10. Assessing risk exposure to natural hazards in Central America applying CARA-GIS

Experts come from different national and international disciplines and institutions such as:

- Institutes for Environmental Sciences and of Mathematics, University Koblenz-Landau
- Institute for Environment and Human Security, United Nations University (UNU-EHS)
- Federal Institute for Geosciences and Natural Resources (BGR)
- Ministry of Environment and Natural Resources of El Salvador (MARN).

