

11 June 2012

Department of Civil Engineering  
2012 Summer Semester  
Yoshimura Chihiro  
Invited Lecturer: Dr Yuichi Iwasaki

## *Aquatic Environmental Science*

### 9. Ecological Risk Assessment

1. Introduction to “Risk”
  2. Before starting ecological risk assessments
    - Biological organization: an important structure
    - Two questions to you
  3. A brief introduction to ecological risk assessment (ERA)
    - Important questions to students
    - A brief introduction to ecological risk assessment
    - Effect analysis and exposure analysis
    - Uncertainty factor (UF)
    - Risk evaluation
    - Non observed effect concentration (NOEC)
    - Hazard Quotient (HQ)
  4. A brief introduction to my research
    - Field effects of metals on river macroinvertebrates
  5. Exercise
-