

# 國立臺北大學自然資源與環境管理研究所

## 101 學年度第一學期『環境工程科學概論』

### 課程講義(六)：風險評估概要

- INTRODUCTION
  - Violation of Exceeding the Standards vs. Probability of Exceedance (超越頻率)
  - Hazard, Risk, and Disaster (危害、危機 / 風險、災害)
  - Adaptation: Vulnerability => Exposure, Sensitivity, and Adaptive Capability
  - Risk Analysis, Risk Assessment (Comparative Risk Assessment), Risk Perception, Risk Communication, and Risk Management
  - Quantitative Assessment, Comparative Ranking, and Qualitative Description
  - Health Risks (Human Life and Disease), Environmental/Ecological Risk, and Socio-Economic Risks
  
- RISK PERCEPTION
  - “Perception is Reality” => Perception vs. Cognition
  - Subjective Ranking of Activities and Techniques (Hazards)
  - Stakeholders and Interested Parties
  - Description of Risks for Human Lives
  
- RISK ASSESSMENT
  - Hazard Identification 危害性鑑定 (危害確認)
  - Dose-Response Assessment 劑量效應評估
  - Exposure Assessment 暴露量評估
  - Risk Characterization 風險特徵評估 (風險特徵描述)
  
- OTHER CONSIDERATIONS AND RISK MANAGEMENT
  - Health Risk: Acute Toxicity vs. Carcinogenic Toxicity
  - Risk Communication => Outrage ?!
  - Risk of Nuclear Power
  - Important Figures and Risk Calculation Procedure
  
- HOMEWORK ASSIGNMENT #3 (Due 10/30/2012) :

請於詳讀《[健康風險評估審議規範](#)》後，完成以下作業 (1) 應用繪圖軟體 (例如 Microsoft Visio) 繪製健康風險評估作業流程圖；(2) 評析該規範第二條之對象、範疇與危害類別，並討論是否擴大規範範疇之可能性；(3) 再行深入討論「危害性化學物質」之類別與對象，細懸浮微粒PM<sub>2.5</sub>可納入嗎？