

國立臺北大學自然資源與環境管理研究所

100 學年度第一學期『環境工程科學概論』

課程講義(七)：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)
 - 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 11/01/2011) :

請於詳讀《健康風險評估審議規範》後，完成以下作業 (1) 應用 Microsoft Visio 軟體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。