

**Presentation Summary on  
“Biodiversity on Aquatic Ecosystem Related to  
Their Structure and Processes”**

Lecturer : Prof. Viera Straskrabova  
Date : 3 September 2006

Outline of the lecture was divided into 5 parts, i.e.: i) spatial and organism structure of aquatic ecosystem; ii) production processes, energy budget, turnover of nutrients and organic matters; iii) main group of aquatic organisms and the biodiversity problems; iv) good and services of the aquatic system; and v) pressure and drivers affecting aquatic biodiversity, including the main treats. But the lecture focuses on the aquatic system of lake and river.

She widely explained about the aquatic ecosystem functions as one of the hot spots of biodiversity, different types of lakes, up to the processes of nutrient cycling, chemical and biochemical that took inputs from the terrestrial system. Basic principles and methodological approaches for the assessment of aquatic ecosystems functions and biodiversity, both on one-ecosystem-scale and at landscape-scale were briefly mentioned.

Biodiversity problems, such as the extinction species which caused by habitats deterioration; alien species which introduced by human, transportation or migration reasons; and increase of toxic or undesirable species which caused by the temperature increase and/or nutrient availability were described; and the lecturer closed the talk by explaining the good and services aspects, which classify as:

- Non demanding on the system, such as: water cycle in the landscape
- Any uses which not consider water quality and mostly for technical purposes, such as: irrigation, hydropower, etc.
- Required water quality as an important factor, such as: drinking water and fish production
- For natural purposes, such as: swimming, sport, etc.