

## SUMMARY

### **The project of extension of nature reserve “Rotuz” in the Oświęcim Valley**

The nature reserve „Rotuz” is situated in the Valley of Upper Vistula in the area of the Oświęcim Valley. The floristic rarity of the nature reserve is mud sedge *Carex limosa* – endangered species in Upper Silesia, included in Polish Red Book of Plants. Protected transitional moor and highmoor in the nature reserve, located at the watershed, is characterized by a strong connection with areas covered by marshy and humid coniferous forests.

The main goal of extension of nature reserve “Rotuz” is protection of peatmoor with the neighbourhood which is composed by phytocoenoses of marshy and humid coniferous forests as well as natural processes forming its natural environment and also limitation of problems associated with forest management in its vicinity.

Apart from extension of the nature reserve, one emphasized on necessity of delimitation of buffer zone between the nature reserve and forest areas where there are no any rules about proper functioning of biocoenoses in the reserve. In the buffer zone, one recommended a partial extirpation of drainage ditches and placement of weir in one of them, facilitating periodical regulation of water relations.