

Summary

This 2nd Annual Report of the Biological Station Lunz deals with the results of the first year's performance of our Project RITRODAT-LUNZ. Due to a generous donation by the Society of the Friends of the Austrian Academy of Sciences it was possible to renovate the staircase and Prof. Berger's chemistry lab. The foto-lab, a room for sediment research, and a microscope room got ready. The Lake Laboratory is now accessible by cars (if necessary) and there exists now also a connection by phone to it.

The most important things that happened in 1978 were the celebration of Dr. Franz Berger's 75th birthday (6 Dec.) and the annual Austrian SIL-Conference in October. Dr. Berger was elected by the President of the Republic to get the title Professor. Our thanks are due to Prof. Berger for his untiring activities in the interest of the Station. His immense knowledge is always available for us.

In this Report Dr. Bretschko describes the morphometry of our research area in Seebach. Then he presents results on traps for collection of benthos at defined sediment depths. Further he deals with the chemical composition of the sediments and gives data on the nitrogen and phosphorus content of leaf litter from the stream.

Prof. Berger gives an account on the temperature and conductivity of the groundwater at different distances from the stream-bed. Dr. Hans Malicky gives tables on emergence trap catchings from two Lunz sites and two sites in the northern Waldviertel (fluvial system of the Elbe). Dr. Adamicka presents results of gut content analyses for *Cottus gobio* (from Ybbs River near Lunz).

Respecting the Austrian Eutrophication Programme, Dr. Schlott describes his method of cartography with the aid of a captive balloon. This enables him to state changes of areas of the submerged vegetation due to an eventual eutrophication process. Dr. Gudrun Malicky gives a survey of the phytoplankton development during 1978 in the Lunzer Untersee.

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Autor(en)/Author(s): Adamicka Peter

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