LEKELAND MYCOLOGY CLUB

NEWSLETTER

This month's Newsletter is concerned mainly with toxic mushrooms, their poisons, and the antidotes presently used as treatment. The purpose is not to frighten the would-be mycophagist, but to emphasize the importance of positive identification of the species which you intend to ext, and with any new species previously untried eat only a small quantity to be sure that you are not allergic to that species even though it is popularly considered edible. Foolhardiness and carelessness are really the only causes of mushroom poisoning.

THE MUSHROOM TOXINS: Recently Donald M. Simons, Ph.D. published an article in the Delaware Medical Journal concerning toxic mushrooms, their toxins, and present concepts of treatment. Dr. Simons is a research chemist with the duPont Company and is an amateur mycologist and sometime mycophagist. It was primarily the latter activity that prompted his interest in the mushroom toxins.

Dr. Simons contends that fungi must be placed on the top of any list of allergenic foods. Many people cannot eat the commercial mushrooms without experiencing unpleasant allergenic symptoms which can range from sniffles or headache, to severe stomach upsets, vomiting, diarrhea and in extreme cases loss of conscious ness. This reflects how wide the variations in personal biochemistry can be. Eating wild mushrooms obviously expands the possibility of an allergenic reaction. The differences in biochemistry no doubt explains why certain mushrooms considered eminently edible, still cause unpleasant reactions with some individuals.

It is generally unwise for very young children or organically ill persons to eat wild mushrooms since a toxic reaction could result from a metabolic defect or from the detoxifying capability of the liver not being fully developed.

Some cases of allergenic reaction to mushrooms, have been attributed to an inability of the body to absorb trehalose (a

crystalline sugar present in fungi).

Dr. Simôns presents one amazing characteristic of the amatoxins present in the Amanita genera, concerning its unbelieveable deadliness. The poison actually interferes with the fundamental process of life itself, attacking life's basic building block, the DNA molecule.