

Cryptogams

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Research

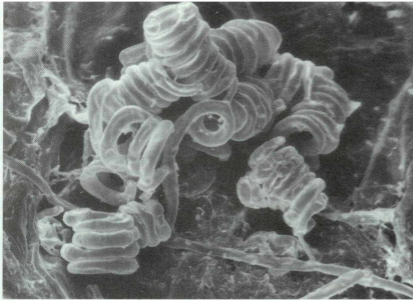
work concentrates on the biology, ontogenetic development and taxonomy of free-living algae and photobionts of lichenized asco- and basidiomycetes, especially on coccalean algae (Chlorophyta). Partly new, lichenized and non-lichenized antarctic species with extraordinary physiological and morphological characters are studied in cooperation with Prof. E. I. FRIEDMANN (University of Florida, Tallahassee). Prof. WOESS cooperates with many lichenologists all over the world, who collect and send living lichen specimens.

Further activities include the systematics and taxonomy of Agaricales, Boletales and Pezizales, of aquatic and aero-aquatic hyphomycetes, as well as the floristical, sociological and ecological mapping of macrofungi in Austria (in cooperation with the Austrian Mycological Society). A worldwide revision of aero-aquatic hyphomycetes is in progress. Our living culture collection comprises free-living algae, photobionts of lichens, aero-aquatic hyphomycetes, Bolbitiaceae, and Strophariaceae. We have a herbarium collection of all groups of fungi (especially macromycetes, also plant pathogens and myxomycetes). In cooperation with Prof. PETERSEN (University of Tennessee, Knoxville) taxonomy and mating types of *Pleurotus* are investigated.

Expert reports are made on mushroom poisoning for hospitals, on forest pathogens, etc. Our department houses the Editor of the "Austrian Journal of Mycology", and of the "Mitteilungen der Österr. Mykologischen Gesellschaft" and the Assistant Editor of "Plant Systematics and Evolution".

Teaching*

Native plants for ecologists (L + P)
Introduction to Central-European biotop types (P)
Biodiversity and ecology of cryptogams (L + P)
Introduction to lichenology (L + P)
Mosses of wetlands and bogs (P)
Systematics and morphology of diatoms (L + P)
Botanical autumn- and winterexcursions (P)
Mycology in schoolteaching (P)
Systematics and ecology of macromycetes of the Viennese area (L+P)
Teaching includes many contributions to obligatory courses for students of biology on cryptogams, obligatory courses for students of ecology, special courses on diatoms, lichens, mosses and fungi.



Helicodendron coniferarum, spec. nova ined., aerial hypha with conidophore and conidia. A new aero-aquatic hyphomycete species.

International Cooperations

Prof. M. Galun, University of Tel-Aviv (Israel); - Prof. A. Henssen, University of Marburg (Germany); - Prof. U. G. Schlösser, Sammlung von Algenkulturen, Göttingen (Germany); - Prof. L. Tibell, Uppsala University (Sweden); - Prof. E. I. Friedmann, University of Florida Tallahassee (USA); - Dr. M. E. Noordeloos, Rijksherbarium and University of Leiden (The Netherlands); - Prof. Dr. I. Rimoczi, Horticultural University Budapest (Hungary); - Prof. R. Petersen, University of Tennessee, Knoxville (USA)

Selected References

Tschermak-Woess E (1995) *Dictyochloropsis splendida* (Chlorophyta), the correct phycobiont of *Phlyctis argena* (Spreng.) Flot., and

the high degree of selectivity or specificity in this lichen. *Lichenologist* 27(3): 169-187

Tschermak-Woess E (1995) The taxonomic position of the green phycobiont of *Sticta canariensis* (Ach.) Bory ex Del., and its extraordinary modification in the lichenized state. *Bibl Lichenologica* 58: 433-438

Krisai-Greilhuber I (1992) *Die Makromyceten im Raum von Wien: Ökologie und Floristik*. IHW-Verlag, Eching

Krisai-Greilhuber I (1995) *Hohenbuehelia cyphelliformis* - a rare pleurotoid fungus in Austria. *Beih Sydowia* 10: 137-141

Voglmayr H (1994) *Limnoperdon incarnatum*, ein aero-aquatischer Gasteromyzet neu für Europa. *Österr Z Pilzk* 3: 71-76

* L, lecture; P, practicals; S, seminar