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Personal Data

Date and place of birth: 23.July 1938, Praha, Czech Republic
Status: no children

Education

Graduate of the Faculty of Forestry, University of Agriculture, Brno, 1965 (high distinction).
University degrees: CSc. (PhD) in 1978, Associate professor 1993

Professional Experience

1970 to present Institute of Forest Ecology, Forest Faculty of Mendel University of Agriculture and Forestry, Brno: Research worker
1970-75 Independent researcher
1976-1977 Independent research specialist
1977-1984 Research scientist (1985-1989), Senior research scientist
1990- Leader of tree-ecophysiology group.
1991-1992 Harvard University, Harvard Forest: Bullard Fellow.
1967-1969 Department of Forest Botany and Phytocenology, Forest Faculty of Brno Agric.Univ.,Brno: Research assistant.
1967 Norwegian Forest Res.Inst., Vollebakk, Norway: A study stay
1966-1967 Institute of Instrumental Analytical Chemistry, Cs.Acad.Sci.,Brno: A study stay.
1966 Forestry Enterprise at Vlasim, Czechoslovakia: Forest engineer, silviculture.

Scientific activities

a) Tree/water relations and structure: (119 papers, 32 research reports)
- Developing instrumental methods for measurement of tree water relations and architecture,

- Scaling physiological data between trees/stands/watersheds,
- Water economy of forest stands, orchards and city greenery,
- Leaf and root distribution and stand structure,
- Studies on the impact of environmental stresses, stand stability
- b) Oleoresin in trees and volatile substances: (21 papers, 5 res.rep.)
- Methods for determination of oleoresins/volatiles and ultra-trace organic analysis.
- Studies of oleoresins and volatile substances in the atmosphere as indicators of tree drought stress or primary attraction
- c) Miscellaneous and technical: (11 papers, 1 res.rep.)
- Photosynthesis, electric properties of trees, statistics, informatics.

Other activities

- Co-chairman, of Whole Plant Physiology Group, IUFRO, from 1991.
- National Forest Committee, from 1993.
- Lecturer, tree eco-physiology, Mendel Univ.Brno, from 1985.
- An active member of New York Academy of Sciences, from 1995.
- Editorial board, Tree Physiology, Victoria, Canada, from 1998.
- Invited visiting professor: repeatedly 25 foreign Universities.
- Principal Investigator/Co-investigator in 6 domestic, 11 European and two U.S. research projects.