

Curriculum Vitae

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Education

- Ph.D., Plant Pathology, University of Missouri, 1982
- M.S., Plant Pathology, University of Missouri, 1977
- B.S., Forestry, University of Missouri, 1973
- A.A., Biological Sciences, Hutchinson Community Junior College, Kansas, 1969

Professional Experience

- **1992 – present:** Administrator - Plant Pathology Section, Florida Department of Agriculture and Consumer Services, Division of Plant Industry. Head of plant disease diagnostic services with a scientific staff of 10 persons plus clerical staff. Director of Plant Disease Quarantine Facility. Chair of Plant Pathogen Introduction Committee.
- **1987 – 1992:** Chief Plant Pathologist, FDACS-DPI. Same as above.
- **1980 – 1987:** Biological Scientist IV (Plant Pathologist), FDACS-DPI. Diagnosis of ornamental, vegetable, fruit, field crop, and native / naturalized plant diseases; investigations into etiology and management of new and insurgent plant diseases, diagnosis and evaluation of control agents for Citrus Canker Eradication Program. Specialization in diagnosis of abiotic and fungal plant diseases.
- **1979 – 1980:** Extension Assistant, University of Missouri – Columbia Plant Disease Clinic, Department of Plant Pathology. Supervisor – Dr. Einar Palm. Diagnosis and management recommendations for diseases of ornamental, tree, fruit, and field crops. Assist with foliar fungicide and seed treatment field trials for soybeans and wheat.
- **1979 – 1980:** Graduate Research Assistant (¾ time) Advisor, Dr. Merton Brown. Research project / Doctoral dissertation: Effects of foliar phosphate, elicitor induced glyceollin, and phloem ringing on soybean-*Glomus mosseae* mycorrhizae. Lab Instruction Coordinator for Ornamental Pathology, Field Crop Pathology, and Forest Pathology under supervision of Dr. Thomas Wyllie.
- **Graduate Research Assistant (1/2 time) Advisor, Dr. Merton Brown.** Research project / Master's thesis: Growth responses and ultrastructural studies of vesicular-arbuscular mycorrhizae produced by *Glomus mosseae* on soybean. Lab instructor for Forest Pathology, 1975-77, 1979 supervised by Dr. Merton Brown. Instructor / Lab Assistant in Electron Microscope Techniques, 1976-79 supervised by Dr. Merton Brown.

Teaching Experience

- **From 1971 to present:** taught classes and / or presented seminars in various aspects of dendrology, forest pathology, ornamental plant pathology, electron microscopy, mycorrhizae, regulatory plant pathology, biotic and abiotic plant disease diagnosis, plant disease survey tactics.

Professional Affiliations

- Florida Phytopathological Society (Secretary, 1993-1995; Vice President, 1995-1997; President, 1997-1999)
- American Phytopathological Society (Served on Regulatory Plant Pathology, Diagnostics, and Environmental Quality and Plant Health committees; member of Southern Division of APS)

Awards and Honors

- Outstanding Senior Award, presented by Xi Sigma Pi, Honorary Forestry Fraternity, University of Missouri – Columbia, 1973.
- Teaching Certificate of Merit, presented by the University of Missouri-Columbia Graduate School, 1977.
- Outstanding Service Award, Florida Department of Agriculture and Consumer Services, Division of Plant Industry, 1987.
- Citation of Special Recognition, Florida Department of Agriculture and Consumer Services, for individual effort in Benlate DF phytotoxicity investigations, 11/2/93.
- Citation of Special Recognition, Florida Department of Agriculture and Consumer Services, Division of Plant Industry, presented to Plant Pathology Section personnel for group effort in Benlate DF Phytotoxicity Investigations. 12/10/93.
- Certificate of Commendation - 1993 Superior Accomplishment-Team Performance Award - Benlate Phytotoxicity Investigations, Florida Department of Agriculture and Consumer Services. 12/15/93.
- 1994 Davis Productivity Award - Citrus Canker Eradication Program, 1984-1994. Team award.
- 1994 Davis Productivity Award - Benlate Phytotoxicity / Analytical Project Team.
- 1995 Employee of the Year, Florida Department of Agriculture & Consumer Services - Division of Plant Industry
- Citation of Special Recognition, Florida Department of Agriculture & Consumer Services - Division of Plant Industry, for outstanding achievements in the regulatory profession in Florida agriculture; in recognition of exceptional leadership and development of screening criteria for the Citrus Canker Eradication Program products and methods in need of evaluation. December, 2000.
- Florida Phytopathological Society Outstanding Service Award. May, 2003

- Davis Productivity Team Award, Taxonomic Services Improvement Team. June, 2003.
- Davis Productivity Award Certificate of Commendation, Sudden Oak Death Outreach Program Partnership, May 2005
- Davis Productivity Team Award, Technical Assistance Production, Citrus Health DVD. April, 2008
- Florida Phytopathological Society Service Award. May, 2009.

Publications

- Schubert, T.S., and M.F. Brown. 1977. Growth responses and ultrastructural changes in soybean infected with Glomus mossae. (Abstract) Trans. Missouri Acad. Sci. 10-11: 276.
- Schubert, T.S. 1977. Growth responses and ultrastructural studies of vesicular-arbuscular mycorrhizae produced by Glomus mossae on soybean. M.S. Thesis, University of Missouri - Columbia. 156 pp.
- King, E.J., T.S. Schubert, and M.F. Brown. 1981. Techniques for developmental studies of VA mycorrhizae. (Abstract of poster presentation) 5th NACOM, Universite Laval, Quebec, Canada, August 16-21, 1981.
- Schubert, T.S. 1981. Strigula, the plant parasitic lichen. Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 227.
- Schubert, T.S. 1982. Leaf scorch of strawberry. Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 238.
- Schubert, T.S. 1982. Copper deficiency in plants. Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 241.
- Schubert, T.S. 1982. Effects of foliar phosphate, elicitor-induced glyceollin, and phloem-ringing on soybean - Glomus mossae mycorrhizae. Ph.D. Dissertation, University of Missouri - Columbia. 133 pp.
- McRitchie, J.J., and T.S. Schubert. 1983. Botrytis blight or gray mold. Fla. Dept. Agric. & Consumer Serv., Div. of Plant In., Pathol. Circ. No. 245.
- Schubert, T.S. 1983. Bitter rot of apple. Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 248.
- Schubert, T.S. 1983. Phytophthora crown rot of petunia and snapdragon. Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 254.
- El-Gholl, N.E., J.W. Kimbrough, and T.S. Schubert. 1984. Tar spot of leucothoe. Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 255.
- El-Gholl, N.E., and T.S. Schubert. 1984. Tar spot of mahogany. Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 263.
- Leahy, R.L. and T.S. Schubert. 1984. Blackleg of geranium. Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 264.
- Schubert, T.S. 1984. Sulfur dioxide injury to plants. Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 257.

- Schubert, T.S. and J.J. McRitchie. 1984. Zucchini yellow mosaic virus. Fla. Dept Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 259.
- El-Gholl, N.E., T.S. Schubert, S.A. Alfieri, and A.E. Graham. 1985. Dry rot of potato tubers. Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 267.
- McRitchie, J.J. and T.S. Schubert. 1985. Twig Blight of juniper. Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 269.
- Schubert, T.S., and J.J. McRitchie. 1985. Septoria leaf spot of phlox. Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 268.
- Burnett, H.C., and T.S. Schubert. 1985. Puccinia psidii on allspice and related plants. Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 271.
- Engelhard, A.W., and T.S. Schubert. 1985. Alternaria blight of poinsettia. Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 277.
- Alfieri, S.A., and T.S. Schubert. 1986. Cercospora leaf spot of petunia. Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 285.
- Schubert, T.S.. 1986. Septoria leaf spot of wax myrtle. Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 282.
- Schubert, T.S., and M.S. Irey. 1986. Yellow spot disease of sugarcane. Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 289.
- Schubert, T.S., R.M. Leahy, and E. Chichester. 1986. Phytophthora leaf and stem blight in Florida. (Abstract) Phytopathology 76: 1071.
- El-Gholl, N.E., and T.S. Schubert. 1987. Tar spot of live oak. Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 294.
- Schubert, T.S., and L.G. Brown. 1987. Entomosporium leaf spot of Rhaphiolepis sp. Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 295.
- Brown, G.E., and T.S. Schubert. 1987. Use of Xanthomonas campestris pv. vesicatoria to evaluate surface disinfectants for quarantine treatment of citrus fruit. Plant Disease 71: 319-323.
- El-Gholl, N.E., S.A. Alfieri, T.S. Schubert, and C.L. Schoutties. 1988. Pseudocercospora feijoa sp. nov. causing a leaf spot on Feijoa sellowiana in Florida. Mycologia 80: 769-775.
- El-Gholl, N.E., and T.S. Schubert. 1988. Septoria leaf spot of sapodilla. Fla. Dept. Agric. & Consumer Serv., Div. Plant Ind., Pathol. Circ. No. 310.
- El-Gholl, N.E., T.S. Schubert, and J.W. Kimbrough. 1988. Echidnodes leaf spot of Tillandsia utriculata. Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 304.
- Schubert, T.S., and L.L. Breman. 1988. Basic concepts of plant disease and how to collect a sample for disease diagnosis. Fla. Dept Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 307.

- Barnard, E.L., N.E. El-Gholl, T.S. Schubert, R.M. Leahy, and C.L. Schoulties. 1989. Cylindrocladium clavatum in Florida. *Plant Disease* 73: 273.
- El-Gholl, N.E., R.M. Leahy, and T.S. Schubert. 1989. Cylindrocladium leucothoeae sp. nov. *Canadian Journal of Botany* 67: 2529-2532.
- Schubert, T.S., and N.E. El-Gholl. 1989. Cercospora leaf spot of New Zealand flax. *Fla. Dept. Agric. & Consumer Serv., Div. Plant Ind., Pathol. Circ. No. 323.*
- Schubert, T.S., and R.M. Leahy. 1989. Phytophthora blight of Catharanthus roseus. *Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 321.*
- Schubert, T.S., N.E. El-Gholl, S.A. Alfieri, Jr., and C.L. Schoulties. 1989. Calonectria avesiculata sp. nov. *Canadian Journal of Botany* 67: 2414-2419.
- El-Gholl, N.E., and T.S. Schubert. 1989. Corynespora leaf spot of Tabebuia. *Fla. Dept. Agric. & Consumer Serv., Div. Plant Ind., Pathol. Circ. No. 328.*
- Schubert, T.S. 1990. Epiphytic bromeliads on Florida trees. *Fla. Dept. Agric. & Consumer Serv., Div. Plant Ind., Pathol. Circ. No. 333.*
- Alfieri, S.A., T.S. Schubert, and N.E. El-Gholl. 1990. Gray leaf spot of Rhaphiolepis. *Fla. Dept. Agric. & Consumer Serv., Div. Plant Ind., Pathol. Circ. No. 332.*
- El-Gholl, N.E., H. Baer, and T.S. Schubert. 1991. Fungi posing occupational hazards in agricultural environments. *Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 339.*
- Schubert, T.S. 1991. Hail damage to plants. *Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 347.*
- El-Gholl, N.E., J.Y. Uchida, A.C. Alfenas, T.S. Schubert, S.A. Alfieri, and A.R. Chase. 1992. Induction and description of perithecia of Calonectria spathiphylli sp. nov. *Mycotaxon* 45: 285-300.
- El-Gholl, N.E., T.J. Proffer, and T.S. Schubert. 1992. Cercospora osirisae sp. nov., the cause of a spot disease on emerged leaves of Echinodorus osiris in Florida. *Mycotaxon* 43: 261-270.
- Schubert, T.S. 1992. Manganese toxicity of plants in Florida. *Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 353.*
- El-Gholl, N.E., A.C. Alfenas, P.W. Crous, and T.S. Schubert. 1993. Description and pathogenicity of Cylindrocladium ovatum sp. nov. *Canadian Journal of Botany* 71: 466-470.
- El-Gholl, N.E., T.S. Schubert, and S.A. Alfieri. 1993. Pseudocercospora leaf spot of feijoa. *Fla. Dept. Agric. & Consumer Serv., Div. of Plant Ind., Pathol. Circ. No. 358.*
- Sonoda, R.M., B.M. Turner, and T.S. Schubert. 1993. Bipolaris sacchari on Panicum maximum in Florida. *Plant Disease* 77: 101.
- Sonoda, R.M., H.S. Paris, T.S. Schubert, N.E. El-Gholl. 1993. Fruit rot of squash cv. Orangetti in Florida. *Plant Disease* 77: 847.

- El-Gholl, N.E., T.S. Schubert, and M.E Peacock. 1996. Tubakia leaf spot of chestnut. Florida Department of Agriculture and Consumer Services, Division of Plant Industry, Gainesville, FL. Plant Pathology Circular No. 375. 3 p.
- Schubert, T.S. and N.E. El-Gholl. 1995. Rhizoctonia leaf spot of Rhipiolepis. Florida Department of Agriculture and Consumer Services, Division of Plant Industry, Gainesville, FL. Plant Pathology Circular No. 372. 2 p.
- Leahy, R., T. Schubert, J. Strandberg, B. Stamps, and D. Norman. 1995. Anthracnose of leatherleaf fern. Florida Department of Agriculture and Consumer Services, Division of Plant Industry, Gainesville, FL. Plant Pathology Circular No. 372. 4 p.
- Schubert, T.S., J.W. Miller, and D.W Gabriel. 1996. Another outbreak of bacterial canker on citrus in Florida. Plant Disease 80:1208.
- Leahy, R.M., and T.S. Schubert. 1996. Daylily leaf streak. Florida Department of Agriculture and Consumer Services, Division of Plant Industry, Gainesville, FL. Plant Pathology Circular No. 376. 3 p.
- Schubert, T.S. and J.W. Miller. 1996. Bacterial citrus canker. Florida Department of Agriculture and Consumer Services, Division of Plant Industry, Gainesville, FL. Plant Pathology Circular No. 377. 6 p.
- El-Gholl, N. E., A. C. Alfenas, D. T. Junghans, T. S. Schubert, J. W. Miller, and R. M. Leahy. 1997. Description of Calonectria rumohrae sp. nov. (anamorph = Cylindrocladium rumohrae sp. nov.). Mycotaxon 64: 467-484.
- El-Gholl, N. E., T. S. Schubert, and S. E. Walker. 1997. Expanded range of Cylindrocladium colhounii in the United States. Plant Disease 81:1333.
- Walker, S. E. and T. S. Schubert. 1997. Assessing plant problems in cropping systems: a systematic approach. Florida Department of Agriculture and Consumer Services, Division of Plant Industry, Gainesville, FL. Plant Pathology Circular No. 381. 4 p.
- Gottwald, T. R., J. H. Graham, and T. S. Schubert. 1997. An epidemiological analysis of the spread of citrus canker in urban Miami, Florida, and synergistic interaction with the Asian citrus leafminer. Fruits (Paris) 52: 383-390.
- El-Gholl, N. E., T. S. Schubert, and S. E. Walker. 1998. Cylindrocladium leaf spot of Callistemon.
- Florida Department of Agriculture and Consumer Services, Division of Plant Industry, Gainesville, FL. Plant Pathology Circular No. 389. 2 p.
- Inserra, R. N., P. S. Lehman, W. C. Welbourn, T. S. Schubert, and R. M. Leahy. Root pests of daylilies. Florida Department of Agriculture and Consumer Services, Division of Plant Industry, Gainesville, FL. Nematology Circular No. 219. 8 p.
- Crous, P. W., N. E. El-Gholl, S. E. Walker, and T. S. Schubert. 1999. Angular leaf spot disease of Saururus caused by Phaeoramularia suaruri sp. nov. Mycotaxon 72: 7-13.
- Schubert, T. S., R. M. Leahy, and N. E. El-Gholl. 1999. Cylindrocladium perseae sp. nov. Mycotaxon 73: 465-475.
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- Schubert, T. S., and X. Sun. 2001. Bacterial citrus canker. Florida Department of Agriculture and Consumer Services, Division of Plant Industry, Gainesville, FL. Plant Pathology Circular 377, 3rd revision. 6 p.
- Schubert, T. S., and J. T. Walker. 2001. Abiotic diseases of woody ornamentals. Pages 7-22 in: *Diseases of Woody Ornamentals and Trees in Nurseries*. R. K. Jones and D. M. Benson, eds. American Phytopathological Society, St. Paul, MN
- Schubert, T. S., S. A. Rizvi, X. Sun, T. R. Gottwald, J. H. Graham, and W. N. Dixon. 2001. Meeting the challenge of eradicating citrus canker in Florida - Again. *Plant Disease* 85: 340-356.
- Gottwald, T. R., J. H. Graham and T. S. Schubert. 2002. Citrus canker: The pathogen and its impact. Online. Plant Health Progress doi:10.1094/PHP-2002-0812-01-RV. <http://www.plantmanagementnetwork.org/pub/php/review/citruscanker/>
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