

CURRICULUM VITAE

THOMAS C. HARRINGTON

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WORK EXPERIENCE:

- January 1991 to Present - Professor, Department of Plant Pathology and Department of Natural Resource Ecology and Management, Member of Ecology and Evolutionary Biology and the Microbiology Graduate Programs, Iowa State University. *Research:* Evolution and ecology of exotic fungal pathogens of trees, bark and ambrosia beetle fungi, *Ceratocystis* species.
- January 1997 to June 1997 - W. D. Wilson Visiting Fellow, Visiting Professor, Department of Microbiology and Biochemistry, University of the Orange Free State, South Africa.
- January 1991 to December 1995 - Chair, Department of Plant Pathology, Iowa State University. *Administration:* expansion of faculty, research support staff and graduate programs; reallocation and remodeling of facilities; increased extramural funding and research productivity; integration of extension into department.
- September 1990 to March 1991 - Visiting Associate Plant Pathologist, Department of Plant Pathology, University of California, Berkeley.
- December 1988 to June 1990 - Chair and Co-chair, Dept. of Botany and Plant Pathology and Dept. of Plant Biology, University of New Hampshire. *Administration:* oversaw the merging of two departments, prioritized teaching productivity.
- September 1988 to December 1990 - Associate Professor of Plant Pathology, Department of Plant Biology, University of New Hampshire. *Teaching:* Forest Pathology, Mycology and Advanced Mycology. *Research:* Genetics and taxonomy of root rot and bark beetle fungi.
- January 1983 to August 1988 - Assistant Professor of Plant Pathology, Department of Botany and Plant Pathology, University of New Hampshire. *Teaching:* Forest Pathology, Mycology, Advanced Mycology, Plant Virology, and Plant Bacteriology. *Research:* Biology of root rot fungi, effects of wind on trees, diseases and forest ecosystem dynamics.
- January 1980 to January 1983 - Research Assistant, University of California, Berkeley. Major Professor: Dr. Fields W. Cobb, Jr. September to December, 1981 and 1982 - Teaching Associate, Forest Insects and Diseases.
- September 1977 to December 1979 - Research Assistant, Washington State University. Major Professor: Dr. C. Gardner Shaw.
- May 1977 to September 1977 - Biological Technician, U. S. Forest Service, Fort Collins, Colorado. Assisted Dr. F. G. Hawksworth and T. E. Hinds.
- February 1977 to May 1977 - Technician, Colorado State Forest Service, Fort Collins.

EDUCATION:

- 1980 to 1983 - University of California, Berkeley, Plant Pathology. Ph.D. Dissertation title: *Verticicladiella wageneri*: taxonomy and vector relations. 115 pp.
- 1977 to 1979 - Washington State University. Plant Pathology. M.S. Thesis title: Cultural characteristics, bark beetle relationships, and dissemination of *Cryptoporus volvatus*. 75 pp.
- 1976 to 1977 - Colorado State University. Plant Pathology. B.S.
- 1974 to 1975 - Community College of Denver. Biology.
- 1970 to 1972 - University of Nebraska at Omaha.

MEMBERSHIPS:

- American Phytopathological Society (APS)
Mycological Society of America (MSA)
Phi Beta Kappa and Sigma Xi Honor Societies

AWARDS AND HONORS:

- Fellow, American Phytopathological Society (2004).
Fellow, Mycological Society of America (2002).

PUBLICATIONS:

1. Harrington, T. C. 1980. Release of airborne basidiospores from the pouch fungus, *Cryptoporus volvatus*. *Mycologia* 72:926-936.
2. Harrington, T. C., R. A. Blanchette, and C. G. Shaw. 1980. In vitro chlamydospore formation by *Cryptoporus volvatus*. *Mycologia* 72:1026-1030.
3. Harrington, T. C. 1981. Cycloheximide sensitivity as a taxonomic character in *Ceratocystis*. *Mycologia* 73:1123-1129.
4. Harrington, T. C., F. W. Cobb, C. Reinhart, and D. A. Thornburgh. 1981. Association of black stain root disease with precommercial thinning of Douglas-fir. pp. 75-76 in: Proc. 29th West. Int. For. Dis. Work Conf., Vernon, B.C.
5. Harrington, T. C., M. M. Furniss, and C. G. Shaw. 1981. Dissemination of hymenomycetes by *Dendroctonus pseudotsugae* (Coleoptera: Scolytidae). *Phytopathology* 71:551-554.
6. Byler, J. W., T. C. Harrington, R. L. James, and S. Haglund. 1983. Black stain root disease of Douglas-fir in western Montana. *Plant Dis.* 67:1037-38.
7. Harrington, T. C., and F. W. Cobb, Jr. 1983. Pathogenicity of *Leptographium* and *Verticicladiella* spp. isolated from roots of western North American conifers. *Phytopathology* 73:596-599.
8. Harrington, T. C., C. Reinhart, D. A. Thornburgh, and F. W. Cobb, Jr. 1983. Association of black stain root disease with precommercial thinning of Douglas-fir. *Forest Sci.* 29:12-14.
9. Harrington, T. C., and F. W. Cobb, Jr. 1984. Host specialization of three morphological variants of *Verticicladiella wageneri*. *Phytopathology* 74:286-290.
10. Harrington, T. C., and F. W. Cobb. 1984. *Verticillium albo-atrum* on *Ceanothus* in a California forest. *Plant Dis.* 68:1012.
11. Harrington, T. C., F. W. Cobb, and J. Lownsbery. 1985. Activity of *Hylastes nigrinus*, a vector of *Verticicladiella wageneri*, in thinned stands of Douglas-fir. *Can. J. For. Res.* 15:519-523.

12. Harrington, T. C. 1986. Growth decline of wind-exposed red spruce and balsam fir in the White Mountains. *Can. J. For. Res.* 16:232-238.
13. Harrington, T. C. 1986. Distribution of needlecast diseases on Douglas-fir Christmas trees in New Hampshire. *Plant Dis.* 70:1069-1070.
14. Harrington, T. C., and F. W. Cobb, Jr. 1986. Varieties of *Verticicladiella wageneri*. *Mycologia* 78:564-569.
15. Marchand, P. J., F. L. Goulet, and T. C. Harrington. 1986. Death by attrition: a hypothesis for wave-mortality of subalpine *Abies balsamea*. *Can. J. For. Res.* 16:591-596.
16. Harrington, T. C. 1987. New combinations in *Ophiostoma* of *Ceratocystis* species with *Leptographium* anamorphs. *Mycotaxon* 28:39-43.
17. Harrington, T. C., and F. W. Cobb, Jr. 1987. *Leptographium wageneri* var. *pseudotsugae* var. nov., cause of black stain root disease on Douglas-fir. *Mycotaxon* 30:501-507.
18. Harrington, T. C. 1988. *Leptographium* species, their distribution, hosts, and insect vectors. pp. 1-39 in: T. C. Harrington and F. W. Cobb, Jr., eds. *Leptographium Root Diseases on Conifers*. APS Press, St. Paul, MN.
19. Harrington, T. C., and F. W. Cobb, Jr., editors. 1988. *Leptographium Root Diseases on Conifers*. APS Press, St. Paul, Minn. 149 pp.
20. Rizzo, D. M., and T. C. Harrington. 1988. Root and butt rot fungi on red spruce and balsam fir in the White Mountains. *Plant Dis.* 72:329-331.
21. Rizzo, D. M., and T. C. Harrington. 1988. Root movement and root damage of wind-exposed red spruce and balsam fir on subalpine sites in the White Mountains, New Hampshire. *Can. J. For. Res.* 18:991-1001.
22. Worrall, J. J., and T. C. Harrington. 1988. Etiology of canopy gaps in spruce-fir forests of Crawford Notch, New Hampshire. *Can. J. For. Res.* 18:1463-1469.
23. Worrall, J. J., and T. C. Harrington. 1988. Respirometric testing of decay resistance of discolored root wood. *Phytopathology* 78:676-682.
24. Harrington, T. C., J. J. Worrall, and D. M. Rizzo. 1989. Root and butt rots and other disturbance agents in montane spruce-fir forests of New Hampshire. pp. 257-266 in: Proc. 7th IUFRO Root and Butt Rot Conference, Vernon, B. C., August 1988.
25. Harrington, T. C., J. J. Worrall, and D. M. Rizzo. 1989. Compatibility among host-specialized isolates of *Heterobasidion annosum* from western North America. *Phytopathology* 79:290-296.
26. Worrall, J. J., D. M. Rizzo, and T. C. Harrington. 1989. Measurement of the host response and root-rot resistance in *Picea rubens* and *Abies balsamea*. pp. 162-170 in: Proc. 7th IUFRO Root and Butt Rot Conference, Vernon, B. C., August 1988.
27. Zambino, P. J., and T. C. Harrington. 1989. Isozyme variation within and among host-specialized varieties of *Leptographium wageneri*. *Mycologia* 81:122-133.
28. Harrington, T. C. 1990. Review of: Phellinus (*Hymenochaetaceae*), *A Survey of World Taxa*, by M. J. Larsen and L. A. Cobb-Pouille. *Mycologia* 82:801.
29. Harrington, T. C., and D. M. Rizzo. 1990. Root and butt rot by *Hyphodontia aspera* in spruce and fir. *Plant Dis.* 74:615.
30. Harrington, T. C., and P. J. Zambino. 1990. *Ceratocystiopsis ranaculosus*, not *Ceratocystis minor* var. *barrasii*, is the mycangial fungus of the southern pine beetle. *Mycotaxon* 38:103-115.
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32. Rizzo, D. M., K. J. Smereka, and T. C. Harrington. 1990. Notes on the rhizomorphs and mating system of *Xeromphalina campanella*. *Mycologia* 82:651-655.

33. Sung, Jae Mo, Joo Young Cha, Chang Keun Yi, and T. C. Harrington. 1990. Studies on strain characteristics and identification of species using mating of *Armillariella* spp. *Korean J. Plant Pathol.* 6:175-185.
34. Zambino, P. J., and T. C. Harrington. 1990. Heterokaryosis and vegetative compatibility in *Leptographium wagneri*. *Phytopathology* 80:1460-1469.
35. Sung, Jae Mo, Young Jun Park, Hyun Joong Kim, and T. C. Harrington. 1991. Biology and taxonomic concepts of *Armillaria* in pine forests in Korea. *Korean J. Plant Pathol.* 7:6-16.
36. Wargo, P. M., and T. C. Harrington. 1991. Host stress and susceptibility to *Armillaria*. pp. 88-101 in: C. G. Shaw, III and G. Kile, eds. *Armillaria Root Disease*. U.S.D.A. Agric. Hndbk. 691.
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38. Harrington, T. C., J. J. Worrall, and F. A. Baker. 1992. *Armillaria* pp. 81-85 in: L. L. Singleton, J. D. Mihail, and C. M. Rush, eds. *Methods for Research on Soilborne Phytopathogenic Fungi*. APS Press, St. Paul, MN.
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43. Harrington, T. C. 1993. Biology and taxonomy of fungi associated with bark beetles. pp. 37-58 in: T. D. Schowalter and G. M. Filip, eds. *Beetle-Pathogen Interactions in Conifer Forests*. Academic Press.
44. Harrington, T. C., and D. M. Rizzo. 1993. Identification of *Armillaria* species from New Hampshire. *Mycologia* 85:365-368.
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49. Sung, J. M., K. J. Yang, H. K. Lee, and T. C. Harrington. 1994. Studies on Korean species of *Armillaria*. *Korean J. Plant Pathol.* 10:261-269.
50. Harrington, T. C., and B. D. Wingfield. 1995. A PCR-based identification method for species of *Armillaria*. *Mycologia* 87:280-288.

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52. Wingfield, M. J., T. C. Harrington and H. Solheim. 1995. Do conifer bark beetles require fungi to kill trees? p. 6 in: E. Christiansen, ed. *Proceedings of Bark Beetles, Blue-stain Fungi, and Conifer Defence Systems*, Aas, Norway. August 1995.
53. Harrington, T. C., J. Steimel, M. J. Wingfield, and G. A. Kile. 1996. Isozyme variation and species delimitation in the *Ceratocystis coerulescens* complex. Mycologia 88:104-113.
54. Kile, G. A., T. C. Harrington, Z. Q. Yuan, M. J. Dudzinski, and K. M. Old. 1996. *Ceratocystis eucalypti* sp. nov., a vascular stain fungus from eucalypts in Australia. Mycol. Res. 100:571-579.
55. Wingfield, B. D., T. C. Harrington, and J. Steimel. 1996. A simple method for detection of mitochondrial DNA polymorphisms. Fungal Genetics Newsletter 43:56-60.
56. Sung, Jae-Mo, Yang Kun-Joo, Soo-Ho Kim, and T. Harrington. 1997. Taxonomic study of Korean *Armillaria* species based on biological characteristics and DNA analyses. Kor. J. Mycology 25:46-67.
57. Paine, T. D., K. F. Raffa, and T. C. Harrington. 1997. Interactions among scolytid bark beetles, their associated fungi, and live host conifers. Annual Rev. Entomol. 42:179-206.
58. Wingfield, M. J., T. C. Harrington and H. Solheim. 1997. Two species in the *Ceratocystis coerulescens* complex from conifers in western North America. Can. J. Bot. 75:827-834.
59. Hsiau, P. T. W. and T. C. Harrington. 1997. *Ceratocystiopsis brevicomi* sp. nov., a mycangial fungus from *Dendroctonus brevicomis* (Coleoptera: Scolytidae). Mycologia 89:661-659.
60. Harrington, T. C., and D. L. McNew. 1997. Self-fertility and uni-directional mating type switching in *Ceratocystis coerulescens*, a filamentous ascomycete. Current Genetics 32:52-59.
61. Witthuhn, R. C., B. D. Wingfield, M. J. Wingfield, and T. C. Harrington. 1997. Comparison of 3 varieties of *Leptographium wageneri* using random amplified polymorphic DNA. South African J. Bot. 63:198-200.
62. Harrington, T. C., and M. J. Wingfield. 1997. Other *Leptographium* species associated with conifer roots. In: E. M. Hansen and K. J. Lewis, eds. *Compendium of Conifer Diseases*. APS Press, St. Paul, Minnesota. p. 8-11.
63. Farrell, R. L., S. M. Duncan, A. P. Ram, S. J. Kay, E. Hadar, Y. Hadar, R. A. Blanchette, T. C. Harrington, and D. McNew. 1997. Causes of sapstain in New Zealand. pp. 25-29 in: B. Kreber, ed. *Strategies for Improving Protection of Logs and Lumber*. New Zealand For. Res. Instit. Bull. No. 204.
64. Witthuhn, R. C., B. D. Wingfield, M. J. Wingfield, M. Wolfaardt, and T. C. Harrington. 1998. Monophyly of the conifer species in the *Ceratocystis coerulescens* complex using DNA sequence data. Mycologia 90:96-100.
65. Harrington, T. C., and M. J. Wingfield. 1998. Diseases and the ecology of indigenous and exotic pines. pp. 381-404 in: D. Richardson, ed. *Ecology and Biogeography of Pinus*. Cambridge University Press.
66. Harrington, T. C., J. Steimel, and G. A. Kile. 1998. Genetic variation in three *Ceratocystis* species with outcrossing, selfing and asexual reproductive strategies. Eur. J. For. Pathol. 28:217-226.

67. Harrington, T. C., D. M. Rizzo, R. A. DeScenzo, and J. Steimel. 1998. Genetic relationships among clones of *Heterobasidion annosum* in a pine forest. in: C. Delatour, J. J. Guillaumin, B. Lung-Escarmant, and B. Marcais, eds., *Root and Butt Rots of Forest Trees*. 9th Intern. Conf. on Root and Butt Rots, INRA Editions (France), Les Colloques 89:159-170.
68. Harrington, T. C., J. Stenlid, and K. Korhonen. 1998. Evolution in the genus *Heterobasidion*. in: C. Delatour, J. J. Guillaumin, B. Lung-Escarmant, and B. Marcais, eds., *Root and Butt Rots of Forest Trees*. 9th Intern. Conf. on Root and Butt Rots, INRA Editions (France), Les Colloques 89:63-74.
69. Farrell, R. L., E. Hadar, S. J. Kay, R. A. Blanchette, and T. C. Harrington. 1998. Survey of sapstain organisms in New Zealand and albino anti-sapstain fungi. pp. 57-62 in: *Biology and Prevention of Sapstain*, Publ. 7273, Forest Products Society, Madison, Wisc.
70. Harrington, T. C., and D. L. McNew. 1998. Partial interfertility among the *Ceratocystis* species on conifers. *Fung. Gen. Biol.* 25:44-53.
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81. Witthuhn, R.C., T. C. Harrington, J. P. Steimel, B. D. Wingfield, and M. J. Wingfield. 2000. Comparison of isozymes, rDNA spacer regions, and MAT-2 DNA sequences

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