

Karel Klinka

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Education

- For. Ing., Faculty of Forestry, Charles University, Prague, 1955-1960
- Ph.D., Faculty of Forestry, University of British Columbia, Vancouver, BC, 1971-1976

Special Professional Qualification

- Registered Professional Forester (RPF (Ret)), Life Member, British Columbia

Employment History

- Forest Service, Czechoslovakia, Forester, 1962-68
- Canadian Cellulose Company, Terrace, BC, Forester, 1969-71
- BC Ministry of Forests, Research Pedologist, 1975-81
- BC Ministry of Forests, Senior Research Scientist, 1982-1990
- Adjunct Prof., Faculty of Forestry, UBC, 1980-86
- Assoc. Prof., V.J. Krajina Chair in Silvics and Silviculture, Faculty of Forestry, 1990-1991
- Professor, Forest Sciences Department, UBC, April 1992- June 2002
- Professor Emeritus, Forest Sciences Department, UBC, June 2002-present

Graduate Students Supervised

Roy, R.R.J.	1982-84	M.Sc.	Classification of immature ecosystems
Kabzems, R.D.	1983-85	M.Sc.	Characterization of soil nutrient regimes
Bernardy, P.	1987-89	M.Sc.	Classification of hardwood ecosystems
Neumann, J.	1988-90	M.Sc.	Relationships between leaf area and stem
Wang, Q.	1987-92	Ph.D.	Ecology and growth of lodgepole pine
McLennan, D.S.	1987-93	Ph.D.	Growth and nutrients in black cottonwood
Wang, G.	1988-93	Ph.D.	Ecology and growth of white spruce
Kayahara, G.J.	1989-92	M.Sc.	Site quality and productivity in hemlock
Pearson, A.F.	1990-92	M.Sc.	Site quality and productivity in Sitka spruce
Daniels, L.D.	1992-94	M.Sc.	Structural analysis of old-growth stands
Varga, P.	1991-96	M.Sc.	Structural analysis of old-growth stands
Chen, H.	1993-97	Ph.D.	Characterization of shade tolerance
Kayahara, G.J.	1993-00	Ph.D.	Decaying wood and soil nutrients
Brett, R.B.	1995-97	M.Sc.	Regeneration in subalpine forests
Fietkau, C.	1995-99	M.Sc.	Regeneration in the hypermaritime forest
Splechtina, B.	1995-01	Ph.D.	Productivity of subalpine ecosystems
New, D.	1996-99	M.Sc.	Productivity of western larch
Brisco, D.	1997-01	M.Sc.	Productivity of mixed-species stands
Collins, B.	1998-00	M.Sc.	Productivity of mixed-species stands
Qian H,	1999-00	Ph.D.	Floristic similarities between Asia and N. Amer.
Golumbia, T.	1999-01	M.Sc.	Vegetation classification of Q.C. Islands
Mathey, A-H.	1999-01	M.Sc.	Productivity of mixed-species stands

In addition to supervising graduate students I supervised the study and work of 4 postdoctoral fellows: H. Qian, (botany and floristic relationships); J. Dobry (Czech Republic), (dendrochronology), J. Fons (Spain) (humus forms and soil biota), and P.V. Krestov (Federal Republic of Russia) (forest ecology).

Most Significant Research Contributions

- Developing the system of biogeoclimatic ecosystem classification for operational use. The system has been accepted in British Columbia and is being used in forest resource management planning and routine silvicultural decision-making. The use of this system resulted in the adoption of a site-specific approach to forest practices. A modified version of this system is being introduced in Great Britain and considered for adoption by the European community.
- Improving the understanding of shade tolerance in forest trees. The work of R.E. Carter and H. Chen quantified light-growth relationships for major timber crop species and inspired others (e.g., P. Burton, Symbiosis Ltd., D. Coates, BC Min. For., J.P. Kimmins, UBC; and C. Messier, University of Laval) to conduct complementary studies.
- Developing height growth and site index models for tree species for which there were no local data, only imported models from outside the province, such as for Pacific silver fir, subalpine fir, Engelmann spruce, lodgepole pine, western larch, trembling aspen, and black spruce. The developed models provide the means for more accurately predicting potential forest productivity and growth & yield of managed stands in the BC provincial forest.
- Quantifying forest productivity – site quality relationships. The paradigm adopted for this work has been that knowing the environmental determinants of forest productivity is just as important as knowing the productivity itself. Our work has inspired others resulting in the development of the provincially coordinated SIBEC (site index – biogeoclimatic ecosystem classification) project.
- Advancing and disseminating knowledge of silvics, silviculture, and forest ecology, and supporting and improving the system of biogeoclimatic ecosystem classification. This effort has been manifested in a variety of studies that address topics such as principles of tree species selection and reproduction methods; site specific responses to fertilizer treatments; the characterization of soil nutrient availability in forest soils; characterization of stand structure; quantification of understory vegetation diversity; the effects of decaying wood on soil development and nutrient availability; humus form classification; and dendrochronology.

Refereed Journal Publications

1. Varga, P., H.Y.H. Chen, and K Klinka. 2005. Tree-size, diversity between single and mixed-species stands in three forest types in western Canada. *Can. J. For. Res.* 35: 593-601.
2. Chen, H.Y.H., G. Kayahara, and K. Klinka. 2004. Effects of light and substrate on planted conifer seedlings in coastal British Columbia. *Northwest Science* 78: 101-110.
3. Chen, H.Y.H. and K. Klinka. .2003. Aboveground productivity of western hemlock and western redcedar mixed species stands in southern coastal British Columbia. *For. Ecol. Manage.* 184: 55-64.
4. Chen, H.Y.H., K. Klinka, A-H. Mathey, X. Wang, P. Varga, and C. Chourmouzis. 2003. Are mixed-species stands more productive than single species stands: an empirical test of three forest types in British Columbia and Alberta. *Can. J. For. Res.* 33: 1227-1237.

5. Qian, H., K. Klinka, R.H. Okland, P. Krestov, and G.J. Kayahara. 2003. Understorey vegetation in boreal *Picea mariana* and *Populus tremuloides* stands in British Columbia. *J.Veg. Sci.* 14: 173-184.
6. Brisco, D.G. Nigh, and K. Klinka. 2002. Height growth and site index model for western larch in British Columbia. *Western J. Appl. For.* 17: 66-74.
7. Klinka, K. and H.Y.H. Chen. 2002. Potential productivity of three interior subalpine forest tree species in British Columbia. *For.Ecol. Manage.* 175: 521-530.
8. Klinka, K., Krestov, P.V. and C. Chourmouzis. 2002. Classification of the mid-seral *Picea mariana* ecosystems of British Columbia, Canada. *Applied Vegetation Science* 5: 227-236.
9. Nigh, G.D., P.V. Krestov, and K Klinka. 2002. Height growth of black spruce in British Columbia. *For. Chron.* 78: 306-313.
10. Nigh, G.D., P.V. Krestov, and K Klinka. 2002. Trembling aspen height-age models for British Columbia. *Northwest Science* 76: 201-212.
11. Wang, X.L., K. Klinka, H.Y.H. Chen, and L. de Montigny. 2002. Root density pattern of western hemlock and western redcedar in single- and mixed-species, second-growth stands. *Can. J. For. Res.* 32: 997-1004.
12. Chen, H.Y.H., P.V. Krestov, and K. Klinka. 2001. Trembling aspen site index in relation to environmental measures of site quality at two spatial scales. *Can. J. For Res.* 32: 1-8.
13. Varga, P. and K. Klinka. 2001. The structure of high-elevation, old-growth stands in west central British Columbia. *Can. J. For. Res.* 31: 2098-2106.
14. Splechtna, B. and K. Klinka. 2001. Height growth and site index models for Pacific silver fir in southwestern British Columbia. *BC Journal of Ecosystems and Management* 1: 1-14.
15. Splechtna, B. and K. Klinka. 2001. Quantitative characterization of nutrient regimes of high-elevation forest soils in the southern coastal region of British Columbia. *Geoderma* 102: 153-174.
16. Collins, D.B., M.C. Feller, and K. Klinka. 2001. Forest floor nutrient properties in single- and mixed-species, second growth stands of western hemlock and western redcedar. *Northwest Science* 75: 407-416.
17. Chen, H.Y.H. and K. Klinka. 2000. Height growth models for high-elevation subalpine fir, Engelmann spruce, and lodgepole pine in British Columbia. *Western Journal of Forestry* 15: 62-69.
18. Qian, Hong, K. Klinka, and S. Xianghou. 1999. Cryptogams on decaying wood in old-growth forests of southern coastal British Columbia. *J. Veg. Sci.* 10: 883-894.
19. Qian, H., P.S. White, K. Klinka, and C. Chourmouzis. 1999. Phytogeographical and community similarities for alpine tundras of Changbaishan Summit, China, and Indian Peaks, USA. *J. Veg. Sci.* 10: 869-882.
20. Splechtna, B, J Dobry, and K, Klinka. 1999. Tree-ring characteristics of subalpine fir (*Abies lasiocarpa* (Hook.)) in relation to elevation and climatic fluctuations. Accepted for publication in *Annales des Sciences Forestiere* 57: 89-100.
21. Brett, R.B. and K. Klinka. 1998. A transition from gap to tree-island regeneration patterns in the subalpine forest of south-coastal British Columbia. *Can, J. For. Res.* 28: 1825-1831.
22. Feller, M.C. and K. Klinka. 1998. Seedfall, seed germination, and initial survival and growth of seedlings of *Thuja plicata* in southwestern British Columbia. *Northwest Science* 72: 157-169.
23. Carter, R.E., E.R.G. McWilliams, and K. Klinka. 1998. Predicting response of Douglas-fir to fertilizer treatments. *For. Ecol. Manage.* 107: 275-289.

24. Chen, H.H.Y. and K. Klinka. 1998. Survival, growth, and allometry of planted *Larix occidentalis* seedlings in relation to light availability. For. Ecol. Manage. 106: 169-179.
25. Chen, H.H.Y., K. Klinka, and R.D. Kabzems. 1998. Site index, site quality, and foliar nutrients of trembling aspen: relationships and predictions. Can. J. For. Res. 28: 1743-1755.
26. Chen, H.Y.H., K. Klinka, and R.D. Kabzems. 1998. Height growth and site index models for trembling aspen (*Populus tremuloides* Michx.) in northern British Columbia. For. Ecol. Manage. 103: 157-165.
27. Chen, H.Y.H., Klinka, K., J. Fons, and P.V. Krestov. 1998. Characterization of nutrient regimes in some continental subalpine boreal soils. Can. J. Soil Sci. 78: 467-475.
28. Dobry, J. and K. Klinka. 1998. Reconstruction of temperature from tree-rings of Pacific silver fir in coastal British Columbia. Northwest Science 72: 81-87.
29. Fons, J., K. Klinka, and R.D. Kabzems. 1998. Humus forms of trembling aspen (*Populus tremuloides* Michx.) ecosystems in northeastern British Columbia. For. Ecol. Manage. 105: 241-250.
30. Fons, J. and K. Klinka. 1998. Chemical and biotic properties and temporal variation of Moder humus forms in the rain forest near Vancouver, British Columbia. Geoderma 86: 83-98.
31. Fons, J. and K. Klinka. 1998. Chemical and biotic properties of the forest floors across a zonal chronosequence in the Coastal Western Hemlock zone of southern coastal British Columbia. Can. J. For. Res. 28: 582-590.
32. Kayahara, G.J., K. Klinka, and P.L. Marshall. 1998. Testing site index – site factor relationships for predicting *Pinus contorta* and *Picea engelmannii* x *glauca* productivity in central British Columbia. For. Ecol. Manage. 110: 141-150.
33. Qian, H. and K. Klinka. 1998. Plants of British Columbia: scientific and common names of vascular plants, bryophytes, and lichens. UBC Press, Vancouver, B.C. 272 pp.
34. Daniels, L.D., J. Dobry, K. Klinka, and M.C. Feller. 1997. Determining year of death of logs and snags of *Thuja plicata* in southwestern Coastal British Columbia. Can. J. For. Res. 27: 1132-1141.
35. Kayahara, G.J., K. Klinka, and A.C. Schroff. 1997. The relationship of site index to synoptic estimates of soil moisture and nutrients for western redcedar (*Thuja plicata*) in southern coastal British Columbia. Northwest Science 71: 167-173.
36. Qian, H., K. Klinka, and B. Sivak. 1997. Diversity of understory vascular vegetation in 40-year old and old-growth stands on Vancouver Island, British Columbia. J. Veg. Sci. 8: 773-780.
37. Chen, H.Y.H., K. Klinka, and G.J. Kayahara. 1996. Effects of light on growth, crown architecture, and specific leaf area for naturally established *Pinus contorta* var. *latifolia* and *Pseudotsuga menziesii* var. *glauca* seedlings. Can. J. For. Res. 26: 1149-1157.
38. Chen, H.Y.H. and K. Klinka. 1996. Light availability and photosynthesis of planted *Pseudotsuga menziesii* seedlings in relation to light availability. Tree Physiology. 17: 23-29.
39. Daniels, L.D. and K. Klinka. 1996. The dynamics of old-growth forests near Vancouver, B.C. Pp. 379-393 in J.S. Dean, and T.W. Swetnam (eds.) Tree Rings, Environment and Humanity. Radiocarbon.
40. Dobry, J., J. Kyncl, K. Klinka, and B.A. Blackwell. 1996. Climatic signals in coastal old-growth forests near Vancouver, BC. Pp 733-741 in J.S. Dean and T.W. Swetnam (eds.) Tree Rings, Environment, and Humanity. Radiocarbon.

41. Kayahara, G.J., H. Chen, K. Klinka, and D.K. Coates. 1996. Light – growth relationships in lodgepole and interior spruce regeneration in central BC. Research Report 9, BC Min. For., Victoria, BC. 32 pp.
42. Kayahara, G.J., K. Klinka, and L.M. Lavkulich. 1996. Effects of decaying wood on eluviation, podzolization, acidification, and nutrient status in soils with different moisture regimes. *Environmental Monitoring and Assessment* 39: 485-492.
43. Klinka, K., H. Qian, J. Pojar, and D.V. Meidinger. 1996. Classification of natural forest communities of coastal British Columbia. *Vegetatio*. 125: 149-168.
44. Klinka, K., H.Y.H. Chen, Q. Wang, and L. de Montigny. 1996. Forest canopies and their influence on understory vegetation in early-seral stands on West Vancouver Island. *Northwest Science* 70: 193-200.
45. Klinka, K., Q. Wang, R.E. Carter, and H. Chen. 1996. Height growth - elevation relationships in subalpine forests of interior British Columbia. *For. Chron.* 72: 193-198.
46. Sims, R.A., I.G.W. Corns, and K. Klinka. (eds.) 1996. Global to local: ecological land classification. *Environmental Monitoring and Assessment* 39: 1-3.
47. Sims, R.A., I.G.W. Corns, and K. Klinka. 1996. Introduction - Global to local: ecological land classification. *Environmental Monitoring and Assessment* 39: 1-10.
48. Varga, P. and K. Klinka. 1996. Diameter distribution of some subalpine fir stands in central British Columbia. *Environmental Monitoring and Assessment* 39: 601-610.
49. Wang, G.G. and K. Klinka. 1996. Classification of moisture and aeration regimes in sub-boreal forest soils. *Environmental Monitoring and Assessment* 39: 451-469.
50. Wang, G.G. and K. Klinka. 1996. Use of synoptic variables in predicting white spruce site index. *For. Ecol Manage.* 80: 95-105.
51. Klinka, K., L.M. Lavkulich, Q. Wang, and M.C. Feller. 1995. Influence of decaying wood on chemical properties of forest floors and surface mineral soils: a pilot study. *Ann. Sci. For.* 52: 523-533.
52. Wang, G.G., and K. Klinka. 1995. Site-specific height curves for white spruce (*Picea glauca* [Moench] Voss) stands based on stem analysis and site classification. *Ann. Sci. For.* 52: 607-618.
53. Qian, H., and K. Klinka. 1995. Spatial variability of humus forms in some coastal forest ecosystems of British Columbia. *Ann. Sci. For.* 52: 653-666.
54. Daniels, L.D., P.L. Marshall, R.E. Carter and K. Klinka. 1995. Age structure of western redcedar in the tree layer of old-growth stands near Vancouver, British Columbia. *Northwest Science* 69: 175-183.
55. Kayahara, G.J., R.E. Carter and K. Klinka. 1994. Site index of western hemlock (*Tsuga heterophylla*) in relation to soil nutrient and foliar chemical measures. *For. Ecol. Manage.* 74: 161-169.
56. Wang, G.G., H. Qian and K. Klinka. 1994. Growth of *Thuja plicata* seedlings along a light gradient. *Can. J. Bot.* 72: 1749-1757.
57. Wang, G.G., P.L. Marshall and K. Klinka. 1994. Height growth pattern of white spruce in relation to site quality. *For. Ecol. Manage.* 68: 137-147.
58. Klinka, K., Q. Wang and G. Kayahara. 1994. Quantitative characterization of soil nutrient regime in some boreal forest soils. *Can. J. Soil Sci.* 74: 29-38.
59. Klinka, K., R.E. Carter and G.J. Kayahara. 1993. Forest reproduction method, for coastal British Columbia: principles, methods, and a stand-level selection guide. *For. Chron.* 70: 569-577.

60. Carter, R.E. and K. Klinka. 1992^a. Inter- and intraspecific variation in shade tolerance of Douglas-fir, western hemlock, and western redcedar. *For. Ecol. Manage.* 55: 87-105.
61. Carter, R.E. and K. Klinka. 1992^b. Use of ecological site classification in the prediction of forest productivity and response to fertilization. *Suid-Afrikaanse Bosbouydskrif* 160: 19-23.
62. Green, R.N., R.L. Trowbridge, and K. Klinka. 1992. Taxonomic classification of humus forms. *For. Sci. Monograph* 29: 1-49.
63. Klinka, K., Q. Wang, G. Kayahara, R.E. Carter and B.A. Blackwell. 1992. Light-growth response relationships in Pacific Silver fir and subalpine fir. *Can. J. Bot.* 70: 1919-1930.
64. McKinnon, A., D.V. Meidinger, and K. Klinka. 1992. Use of the biogeoclimatic classification system in British Columbia. *For. Chron.* 68: 100-120.
65. Qian, H., K. Klinka, and L.M. Lavkulich. 1992. Relationships between colour value and nitrogen in forest mineral soils. *Can. J. Soil Sci.* 73: 61-72.
66. Klinka, K., J. Pojar, and D.V. Meidinger, 1991. Revision of biogeoclimatic units of coastal British Columbia. *Northwest Sci.* 65: 32-46.
67. Klinka, K., Q. Wang, and R.E. Carter. 1990. Relationships among humus forms, forest floor nutrient properties, and understory vegetation. *For. Sci.* 36: 564-581.
68. Carter, R.E. and K. Klinka. 1990. Relationships between growing-season soil water-deficit, mineralizable soil nitrogen, and site index of coastal Douglas-fir. *For. Ecol. Manage.* 30: 301-311.
69. Klinka, K. and R.E. Carter. 1990. Relationships between site index and synoptic environmental variables in immature coastal Douglas-fir stands. *For. Sci.* 36: 815-830.
70. Klinka, K., R.E. Carter, and M.C. Feller. 1990. Cutting old-growth forests in British Columbia: considerations for forest regeneration. *The Northwest Environmental Journal* 6: 221-242.
71. Klinka, K., M.C. Feller, R.N. Green, D.V. Meidinger, J. Pojar, and J. Worrall. 1990. Ecological principles: applications. Pp. 55-72 in D.P. Lavender, R. Parish, C.M. Johnson, G. Montgomery, A. Vyse, R.A. Willis, and D. Winston *Regenerating British Columbia's forests*. University of British Columbia Press, Vancouver, BC.
72. Courtin, P.J., K. Klinka, M.C. Feller, and J.P. Demaerschalk. 1989. An approach to quantitative classification of nutrient regime of forest soils. *Can. J. Bot.* 66: 2640-2653.
73. Klinka, K., R.E. Carter, M.C. Feller, and Q. Wang. 1989. Relations between site index, salal, plant communities, and sites in coastal Douglas-fir ecosystems. *Northwest. Science* 63: 19-28.
74. Green, R.N., P. Marshall, and K. Klinka. 1989. Estimating site index of Douglas-fir [*Pseudotsuga menziesii* (Mirb.) Franco] from ecological variables in southern British Columbia. *For. Sci.* 35: 50-63.
75. Klinka, K., V.J. Krajina, A. Ceska, and A.M. Scagel. 1989. Indicator plants of coastal British Columbia. University of British Columbia Press, Vancouver, BC. 288 pp.
76. Kabzems, R.D. and K. Klinka. 1987a. Initial quantitative characterization of soil nutrient regimes. I. Soil properties. *Can. J. For. Res.* 17: 1557-1564.
77. Kabzems, R.D. and K. Klinka. 1987b. Initial quantitative characterization of soil nutrient regimes. II. Relationships among soils, vegetation, and site index. *Can. J. For. Res.* 17: 1565-1571.
78. Lowe, L.E., A.M. Scagel, and K. Klinka. 1987. Chemical properties and classification of organic horizons from selected soils in British Columbia. *Can. J. Soil Sci.* 67: 383-394.

79. Klinka, K., J. Pojar, and D.V. Meidinger. 1987. Biogeoclimatic ecosystem classification in British Columbia. *For. Ecol. Manage.* 22: 119-154.
80. Carter, R.E., I.M. Miller, and K. Klinka. 1986. Relationships between growth form and stand density in immature Douglas-fir. *For. Chron.* 62: 440-445.
81. Carter, R.E., A.M. Scagel, and K. Klinka. 1986. Nutritional aspects of distorted growth in immature forest stands of coastal southwestern British Columbia. *Can. J. For. Res.* 16: 36-41.
82. Klinka, K., A.M. Scagel, and P.J. Courtin. 1985. Vegetation relationships among some seral ecosystems in southwestern British Columbia. *Can. J. For. Res.* 15: 561-569.
83. Klinka, K. and M.C. Feller. 1984. Principles of tree species selection used in regenerating forest sites in southwestern British Columbia. *For. Chron.* 60: 77-85.
84. Carter, R.E., J. Otchere-Boateng, and K. Klinka. 1984. Dieback of a 30-year old Douglas-fir plantation in the Brittain River Valley, British Columbia: symptoms and diagnosis. *For. Ecol. Manage.* 7: 249-263.
85. Courtin, P.J., M.C. Feller, and K. Klinka. 1983. Lateral variability in some properties of disturbed forest soils in southwestern British Columbia. *Can. J. Soil Sci.* 63: 529-539.
86. Sondheim, M.W. and K. Klinka. 1983. The relationship of soil and physiographic attributes to an ecological classification system. *Can. J. Soil Sci.* 63: 97-112.
87. Robinson, B., M.C. Feller, and K. Klinka. 1982. Four common mosses as indicators of forest floor acidity in the Coastal Western Hemlock zone of southwestern British Columbia. *Syesis* 15: 17-23.
88. Klinka, K., M.C. Feller, L.M. Lavkulich, and A. Kozak. 1980. Evaluation of methods of extracting soil cations for forest productivity studies in southwestern British Columbia. *Can. J. Soil Sci.* 60: 697-705.
89. Klinka, K., W.D. van der Horst, F.C. Nuszdorfer, and R.G. Harding. 1980a. An ecosystematic approach to forest planning. *For. Chron.* 56: 97-103.
90. Klinka, K. and L. Skoda. 1977. Synecological map of the University British Columbia Research Forest. *For. Chron.* 53: 348-352.
91. Hradecky, J., M. Malecek, and K. Klinka. 1969. Estimating stand volume by a photographic technique (in Czech). *Lesnictvi* 15: 15-29.

Non-refereed and Government Publications

1. Klinka, K. and D. Brisco. 2009. Silvics and silviculture of coastal western redcedar: A literature review. *Spec. Rep. Ser. 11, BC Min. For. Range, For. Sci. Prog., Victoria BC.*
2. Klinka, K., C. Chourmouzis, and P. Varga. 2005. Site units of the University of British Columbia Malcolm Knapp Research Forest. UBC Malcolm Knapp Research Forest, Maple Ridge, BC.. 126 pp, maps, CD-ROM.
3. Klinka, K., P. Varga, C. Trethewey, C. Koot, M. Rau, J. Macku, and A. Kusbach. 2004. Site units of the University of British Columbia Alex Fraser Research Forests. UBC Alex Fraser Research Forests, Williams Lake, BC. 99 pp, maps, Appendices, CD-ROM.
4. Klinka, K. and C. Chourmouzis. 2001. The Mountain Hemlock zone. *Scientia Silvica* No. 28, Forest Science Department, University of British Columbia, Vancouver, BC. 183 p.
5. Krestov, P.V., K. Klinka, C. Chourmouzis, and C. Hanel 2002. Classification of trembling aspen ecosystems in British Columbia. *Scientia Silvica* No. 27, Forest Science Department, University of British Columbia, Vancouver, BC. 112 p.

6. Krestov, P.V., K. Klinka, C. Chourmouzis, and G. Kayahara. 2001. Classification of mid-seral, black spruce ecosystems of northern British Columbia. *Scientia Silvica* No. 26, Forest Science Department, University of British Columbia, Vancouver, BC. 88 p.
7. Brett, R.B., K. Klinka, and H. Qian. 2001. Classification of high-elevation, non-forested plant communities in coastal British Columbia. *Scientia Silvica* No. 29, Forest Science Department, University of British Columbia, Vancouver, BC. 72 p.
8. Klinka, K., O. Varga, and C Chourmouzis. 2001. *Scientia Silvica* Extension Series. Forest Sciences Department, University of British Columbia, Vancouver, BC.
9. Klinka, K., J. Worrall, L. Skoda, P. Varga, and V.J. Krajina. 1999. The distribution and synopsis of ecological and silvical characteristics of tree species of British Columbia's forests (including SILVICS-CD and large biogeoclimatic zone map). 2nd edition, Canadian Cartographics Ltd., Coquitlam, BC.
10. Klinka, K. and P. Varga. 1999. Select-CD: a computer support system for making tree species and reproduction cutting decisions in the coastal forest of British Columbia. Forest Sciences Department, University of British Columbia, Vancouver, BC.
11. Klinka, K., A. Banner, R.N. Green, and A. Inselberg. 1995. Site classification for coastal British Columbia. BC. Min. For., Victoria, BC. (coloured folded pamphlet).
12. Green, R.N. and K. Klinka. 1994. A field guide for site identification and interpretation for the Vancouver Forest Region. Land Manage. Handbook No. 28. BC. Min. For., Victoria, BC. 285 pp.
13. Wang, Q., G.G. Wang, K.D. Coates, and K. Klinka. 1994. Use of site factors to predict lodgepole pine and interior spruce site index in the Sub-Boreal Spruce Zone. Research Note No. 114, BC. Min. For., Victoria, BC. 26 pp.
14. Klinka, K., R.E. Carter, G.F. Weetman, and M. Jull. 1992. Silvicultural analysis of the subalpine Mountain Hemlock zone. A Contract Rep. to the BC. Min. For., Vancouver Forest Region, Burnaby, BC. 51 pp.
15. Carter, R.E. and K. Klinka. 1991. Interspecific and intraspecific variation in shade tolerance of Douglas-fir, western hemlock, and western red cedar. A Contract Report to BC. Min. For., Vancouver Forest Region, Burnaby, BC. 25 pp.
16. Klinka, K. 1991. Ecology of yellow-cedar sites. Pp. 23-28. In J.D. Lousier (ed.) Yellow Cypress: Can We Grow It? Can We Sell it? FRDA Rep. 171, BC. Min. For., Victoria, BC.
17. Klinka, K. and R.E. Carter. 1991. A stand-level guide to the selection of reproduction methods for regenerating forest stands in the Vancouver Forest Region. A Contract Report to the BC. Min. For., Vancouver Forest Region, Burnaby, BC. 18 pp., Appendices.
18. Banner, A., R.N. Green, K. Klinka, D.S. McLennan, D.V. Meidinger, F.C. Nuszdorfer, and J. Pojar. 1990. Site classification for coastal British Columbia: a first approximation. BC. Min. For., Victoria, BC. 2pp. (a coloured pamphlet).
19. McLennan, D.S. and K. Klinka. 1990. Black cottonwood -- a nurse species for regenerating western redcedar on brushy sites. FRDA Report 114, Forestry Canada and BC. Min. For., Victoria, BC. 12pp.
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27. Green, R.N., P.J. Courtin, K. Klinka, R.J. Slaco, and C.A. Ray. 1984. Site diagnosis, tree species selection, and slashburning guidelines for the Vancouver Forest Region. Land Manage. Handbook No. 8, BC. Min. For., Victoria, BC. 143 pp.
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32. Klinka, K., M.C. Feller, and R.K. Scagel. 1982. Characterization of the most productive ecosystems for growth of Engelmann spruce (*Picea engelmannii* Parry ex Engelm.) in southwestern British Columbia. Land Manage. Rep. No. 9, BC. Min. For., Victoria, BC. 80 pp.
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34. Courtin, P.J., J. Heineman, K. Klinka, W.R. Mitchel, and R.N. Green. 1981. Biogeoclimatic units. Coloured Victoria-Vancouver 1:500,000 N.T.S. Map Sheet 92 S.E. BC. Min. For., Victoria, BC.
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36. Lowe, L.E. and K. Klinka. 1981. Forest humus in the Coastal Western Hemlock biogeoclimatic zone of British Columbia in relation to forest productivity and pedogenesis. Research Note No. 89, BC. Min. For., Victoria, BC. 83 pp.
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Conference Proceedings

1. Kayahara, G.J., A. Schroff, K. Klinka, and A. Franc. 1997. The relationships of site index to site quality for western redcedar. In Proceedings of the XI World Forestry Congress, 13-22 October, 1997, Antalya, Turkey. Volume 3, Topic No. 13, Summary.
2. Klinka, K., Q. Wang, R.E. Carter, and G.G. Wang. 1995. Height - growth relationships in subalpine forests of interior British Columbia. In Proceedings of IUFRO XX World Congress, 6-12 August 1995, Tampere, Finland. Abstracts of Invited Papers, pp 19-20.
3. Carter, R.E. and K. Klinka. 1991. Use of ecological site classification in the prediction of forest productivity and response to fertilization. An accepted paper for the proceedings of IUFRO Symposium: Intensive Forestry - the Role of Eucalypts, September 2-6, 1991, Durban, South Africa.
4. Klinka, K., J. Pojar, and D.S. McLennan. 1990. Classification of forested landscapes in coastal British Columbia. An invited paper presented at the Second National Symposium of the Canadian Society for Landscape Ecology and Management, May 3-6, 1990, Vancouver, BC.
5. Klinka, K. and R.E. Carter. 1990. Ecological criteria for the solution of silviculture systems. An invited presentation for the 1990 Western Forestry Conference, December 2-5, 1990, Coeur d'Alene Resort, Idaho.
6. Klinka, K. 1989. Approach to evaluating site characteristics for forest fertilization. Pp. 153-161 in J.D. Lousier (ed.) Forest Fertilization - Theory and Practice. Workshop Proc., BC. Min. For., Victoria, BC.

7. Klinka, K. and R.E. Carter. 1988. Relationships between site quality and forest productivity in young coastal Douglas-fir ecosystems of south-western coastal British Columbia. A poster presented at the 7th North Amer. For. Soil Conf., Vancouver, BC., July 24-28, 1988.
8. Klinka, K. and F.C. Nuszdorfer. 1988. Relationships between indicator plants and humus forms in coastal southern British Columbia. Pp. 160-173 *in* Proceedings of the 11th Meeting of the British Columbia Soil Science Working Group, BC. Min. Agric. & Fish., Victoria, BC.
9. Klinka, K. 1987. Biogeoclimatic ecosystem classification in British Columbia: the system, relationships to forest productivity, and application. Pp. 51-71 *in* T.M. Williams and C.A. Gresham (eds.) Predicting consequences of intensive forest harvesting on long-term productivity by site classification. Baruch Forest Science Institute of Clemson University, Georgetown, South Carolina.
10. Klinka, K., R.E. Carter, and D.S. McLennan. 1987. Ecological approach to modeling Douglas-fir site index. A poster presented at the symposium on Maintaining the Long-term Productivity of Pacific Northwest Forest Ecosystems, March 31 - April 2, 1987, Oregon State University, Corvallis, Oregon.
11. Klinka, K., and F.C. Nuszdorfer. 1987. Nutritional significance of Mors, Moders, and Mulls in upland forest ecosystems. A paper presented at the 11th BC. Soil Science Workshop, February 19-20, 1987, Univ. British Columbia. Vancouver, BC.
12. Nuszdorfer, F.C. and K. Klinka. 1987. Western redcedar plant communities in coastal British Columbia. Pp. 87-101 *in* N.J. Smith (ed.) Western red cedar - does it have a future? Conf. Proc., Fac. For., Univ. British Columbia, Vancouver, BC.
13. Klinka, K., R.N. Green, D.V. Meidinger, and D.S. McLennan. 1986. Biogeoclimatic ecosystem classification. A five-panel poster presented at the IV. International Congress of Ecology, 10-16 August, 1986, Syracuse, New York.
14. Klinka, K., D.S. McLennan, and P.J. Courtin. 1986. Relationships of life-form and climatic species groups to regional climate. A paper prepared for the XVI IUFRO Congress, September 7-21, 1986, Ljubljana, Yugoslavia.
15. Pojar, J., K. Klinka, and D.V. Meidinger. 1986. Ecosystem Classification by the British Columbia Forest Service. Pp. 68-88 *in* H. van Groenewoud (compiler), Forest site classification methods. Proceedings of the workshop of the IUFRO Working Party on Site Classification and Evaluation (S1.02.06), 9-12 October 1985, Fredericton, New Brunswick.
16. Klinka, K., P.J. Courtin, and R.N. Green. 1985. An approach to quantitative classification of hygrotopes and trophotopes of forest soils. Pp. 12-13 *in* First IUFRO Workshop on Qualitative and Quantitative Assessment of Forest sites with Special Reference to Soils. Swiss Federal Institute of Forestry Research, Birmensdorf, Switzerland.
17. Courtin, P.J., K. Klinka, M.C. Feller, and J.P. Demaerschalk. 1985. An approach to quantitative classification of nutrient regimes of forest soils. An invited paper presented at the symposium: Community Organization and Ecosystem Conservation - a Contemporary Synthesis. Canadian Congress of Biology, London, Ontario, 23-29 June 1985.

Other Scholarly and Professional Activities

- Review of manuscripts for grant proposals, refereed journals; conference proceedings, and government publications.
- Chairman of the IUFRO Working Party on Site Classification and Evaluation (S8.02.03).
- Lecturer in modules 1 and 4, Silvicultural Institute of British Columbia

- Invited presentations at local symposia, workshops, and meetings related to forest ecology, silviculture, and forest resource management.
- UBC Access, GIS FRST 203, since 1987.
- Visiting lecturer (2 days/year) on the principles of ecosystem classification at the Utah State University (contact person: Dr. J. Long).
- Invited to the Norwegian Institute of Land inventory for humus form identification training, 15 - 29 July, 1996.
- Invited to the Gassinski Model Forest, Khabarovsk, Russia, to discuss ecological research, 17-20 Sept. 1996.
- Biogeoclimatic ecosystem classification - presentation given at the Russian Academy of sciences, Institute of Botany and Pedology, Vladivostok, 1996/09/27.
- Invited presentation on vegetation classification at the phytosociological symposium in Montana (contact person T. Spribille), 99/06/26-31).
- Visiting Lecturer at the Harbin Forestry University 1996//09/26-28.
- Visiting Lecturer (Advances in Applied Forest Ecology) at the Faculty of Forestry, BOKU, Vienna, Austria (contact person: Dr. G. Glatzel); 1992/05/5-15, 1998/10/5-17.
- Invited by CABI International to prepare materials on the silvics and silviculture of 26 tree species for the Forest Tree Compendium (contact person T. Green), 1999/04-11.
- Invited by the Oregon State University to write a chapter on climate and vegetation for the book “Regenerating Pacific Northwest Forests (contact person Dr. S. Hobbs); 1998/05-2000/12.
- A member of the team developing a vegetation data processing software: VTAB – Ecosystem Reporter. © J. Emanuel, available at: <http://www.interchg.ubc.ca/klinka/VTAB>

Awards

- 1993 University Teaching Prize
- 1989 BC Science and Engineering Gold Medal (Applied Science)
- 1977 Distinguished Forester Award (Association of BC Professional Foresters)