

## PAPERS PUBLISHED:

- Iles, K. and Lester Wilson. "*A Further Neglected Mean*". Mathematics Teacher. Jan. 1977.
- Iles, K. "*Pythagoras and the Tree Ring Problem*". Math. Spectrum. May 1978.
- Iles, K. "*Increasing Estimation Efficiency in 3P Cruises*". Forest Chronicle. Feb. 1978.
- Iles, K. "*Some Techniques to Generalize the use of Variable Plot and Line Intersect Sampling*". 1979. Forest Resource Inventories Workshop, Colorado State University.
- (This work was summarized in a German scientific publication of Walter Bitterlich as "*Eine fließend mitwachsende Dauerstichprobe in Wald*". Allgemeine Forstzeitung, Folge 2, February 1983. Also in his book, chapter 10, "The Relascope Idea". Page Bros. (Norwich) Ltd. 236 p.)
- Iles, K. and Lester Wilson. "*An Improvement of a Historic Construction*". Mathematics Teacher. Jan. 1980.
- Iles, K. "*Permanent 'Variable' Plots for Forest Growth*". 1981. Western Forestry Meeting. Sun Valley, Idaho.
- Iles, K. "*Some Thoughts on Growth Measurement Techniques*". 1983. Proceedings: Renewable Resource Inventories for Monitoring Changes and Trends. Corvallis, Oregon.
- Iles, K. and Tom W. Beers. "*Growth Information from Variable Plot Sampling*". 1983. Proceedings: Renewable Resource Inventories for Monitoring Changes and Trends. Corvallis, Oregon.
- Iles, K. and John F. Bell. "*Grade Assessment using Variable Plot Sampling*". 1983. Proceedings: Renewable Resource Inventories for Monitoring Changes and Trends. Corvallis, Oregon.
- Bell, John F., K. Iles and David Marshall. "*Balancing the Ratio of Tree-Count-Only sample points and VBAR Measurements in Variable Plot Sampling*". 1983. Proceedings: Renewable Resource Inventories for Monitoring Changes and Trends. Corvallis, Oregon.
- Iles, K. and M. Fall. "*Can an Angle Gauge Really Evaluate 'Borderline Trees' Accurately in Variable Plot Sampling?*" June 1988. Can. J. For. Res. 18(6):774-781.
- Iles, K. and W.H. Wilson. "*Changing Angle Gauges in Variable Plot Sampling: Is there a Bias under Ordinary Conditions?*" June 1988. Can. J. For. Res. 18(6):768-773.
- Smith, N.J. and K. Iles. "*A Graphical Depiction of Multivariate Similarity Among Sample Plots*". April 1988. Can. J. For. Res. 18(4):467-472.
- Iles, K. "*Critical Height Sampling: A Workshop on the Current State of the Technique*." 1989. Invited Paper in the Proceedings: State of the Art Methodology of Forest Inventory. Syracuse, New York.
- Bell, J.F. & K. Iles, "*Count Plots in Prism Cruising*", The Consultant, Summer 1992.
- Iles, K. "*The Relascope: Enduring Principles and Historical Development*" 1992, Proceedings of the IUFRO Centennial Meeting in Berlin. August 1992

- Iles, K. "*Some Directions for Forest Inventory*", Journal of Forestry, December 1994. Invited lead article for the special edition on Inventory.
- Iles, K. "Constructing a Safety Net in the Circus of New Technology", proceedings of the IUFRO inventory conference in Tampere, Finland, 1995.
- Iles, K. "Some Practical Aspects of Designing a Large Inventory", International meeting on Forest Inventory, Boise, Idaho, 1998
- Flewelling, James and Kim Iles "*Area-Independent Sampling for Total Basal Area. Forest Science*", in press
- Smith, Nick and Kim Iles "*Sector Sampling*", Forest Science, in press
- Marshall, David; Kim Iles and John Bell "*Using a large-angle gauge to select trees for measurement in variable plot sampling*" Canadian Journal of Forest Research, April 2004, pages 840-845.

#### BOOKS:

- A Sampler of Inventory Topics*. A textbook on forest inventory (second printing)
- Forest Mensuration Lab Manual*. 1973. Oregon State University. Co-authored by John Bell.
- "Forest Measurements" Chapter (Section on Standing Tree Measurement) of *Society of American Foresters Handbook of Forestry* (1984).

#### A FEW (of many) TALKS PRESENTED (no paper produced):

- Iles, K. and Steve Northway. "*Ridge Regression Without Using a Matrix - The Logic Behind the System and Some Improvements*". Midwestern Mensurationists Meeting. Macinac Island, Michigan. 1980.
- Iles, K. "*Shiftable Plot Borders, Pseudo-trees and the CFI Concept. Why Not Take Stem Distribution into Account?*" Western Mensurationists Meeting. Seattle, Washington. 1983.
- Iles, K. "*An Historical Instrument, Bitterlich's Early Wooden Relascope*". Western Mensurationists Meeting, Kelowna, B.C. 1989.
- Iles, K. "*Importance Sampling*". Western Mensurationists Meeting. Bend, Oregon. 1990. (Speakers award)
- Iles, K. "*Update on the B.C. Inventory*". Western Mensurationist Meeting. Newport, Oregon. 1993 (Speakers award)
- Iles, K. "*How to place a grid – not as easy as you might think*", Western Mensuration Meeting.
- Iles, K. "*Solving the edge effect problem, an exact solution*" Western Mensurationist Meeting. 2001
- Iles, K and Nick Smith. "*Sector Sampling, a new plot shape*" Western Mensurationist Meeting. 2002
- Iles, K. "*A General solution to the 'nearest neighbor' sampling problem*" Western Mensurationist Meeting. 2003 (speaker award)
- Iles, K. "*Driving Mr. Lew*" at the invited conference to celebrate the work of Lew Grosenbaugh.

UNPUBLISHED PAPERS:

*"Penetration Sampling"*, an extension of the Bitterlich system to the third dimension. 1974.

*"Geometrical considerations affecting the determination of basal area growth by increment boring methods"*, unpublished M.Sc. thesis, Oregon State University. 1974.

Invited paper at Walter Bitterlich's 80th Birthday Celebration, Salzburg, Austria. 1988.

DISSERTATION TOPIC: Ph.D., 1979

*"Systems for the Selection of Random Samples and the Extension of Variable Plot Sampling to the Third Dimension"*. Selection of truly random samples of individual trees has previously been very time consuming. Techniques are presented which do not require the numbering of every member of the population. Bitterlich's sampling system is generalized to three dimensions to give direct volume estimates without the need for volume tables of any kind. This was an independent development of what has become known as "Critical Height Sampling".