

Barend Vlaardingerbroek: Curriculum Vitae

Qualifications

Postgraduate degrees:

Doctor of Philosophy (Ph.D.), University of Otago, New Zealand, February 1995.

Title of thesis: *A human capital approach to the relevance of lower secondary education and science education in agrarian developing countries, with special reference to Papua New Guinea.* Examined in USA, Australia and New Zealand.

Master of Applied Science (M.App.Sc.), in Science Education, Curtin University of Technology, Australia, August 1988.

Title of thesis: *The assessment of the sciences under the new Sixth Form Certificate system in New Zealand and teacher attitudes towards it.* Examined in New Zealand and Australia.

Undergraduate degrees:

Bachelor of Arts (B.A.), University of Queensland, Australia, December 1988.

Major: Geography. Minor: Comparative Religion. Other: History.

Bachelor of Educational Studies (B.Ed.St.), University of Queensland, February 1984.

Concentration in Comparative Education.

Bachelor of Science (B.Sc.), University of Auckland, New Zealand, May 1976.

Major: Zoology/Ecology double. Other: Botany, Anthropology, Psychology.

Professional qualifications:

Advanced Diploma of Teaching, Wellington, New Zealand, 1987.

Certificate in the Teaching of a Second Language (English), Massey University, New Zealand, 1985.

Diploma of Secondary Teachers College, Auckland, New Zealand, 1977.

Career Development

American University of Beirut, Dept of Education, since Sep. 2004. Appointed Assistant Professor, applying for promotion to Associate Professor 2009.

Duties: Teaching the 'Instructional Procedures' foundation course for the B.A. in Education and Teaching Diplomas; teaching 'Science for Elementary Teachers' courses; membership of M.A. thesis committees; conducting workshops for science teachers; Student Advisor.

University of Botswana, Dept of Mathematics and Science Education, Dec. 1997 – Dec. 2001; appointed as Lecturer, promoted to Senior Lecturer April 1999.

Duties: Planning and co-conducting regional in-service workshops for upper secondary science teachers; teaching Biology and 'Chemistry Teaching Methods' courses; supervision of M.Ed. dissertations; Teaching Practice supervision.

University of Papua New Guinea – Goroka Campus, Dept of Science, Agriculture and Health, March 1989 – Nov. 1997; appointed as Lecturer, recommended for promotion to Senior Lecturer March 1995 but not actioned owing to the 'freeze' on promotions brought about by the country's deepening fiscal crisis.

Duties: Teaching Biology, Chemistry, and 'Science Curriculum and Instruction' courses; upgrading of programmes from undergraduate diploma to degree level; Teaching Practice supervision.

School teacher in New Zealand, Papua New Guinea and Australia 1978-88.

Publications

Edited volumes:

Vlaardingerbroek, B. & Taylor, N. (Eds.) *Getting into varsity – Comparability, convergence and congruence*. In preparation as companion volume to the following:

Vlaardingerbroek, B. & Taylor, N. (Eds.) (2009). *Secondary school external examination systems – Reliability, robustness and resilience*. NY: Cambria Press.

Chapters in edited volumes:

Vlaardingerbroek, B. (2000). Education, inequality, and development: Schooling in Papua New Guinea. In *Education in a Global Society – A Comparative Perspective*, K. Mazurek, M.A. Winzer & C. Majorek (Eds.), pp. 409-418. NY: Allyn & Bacon.

Vlaardingerbroek, B., Tottenham, A. & Leach, G. (1994). Papua New Guinea. In *Comparative Studies in Special Education*, K. Mazurek & M.A. Winzer (Eds.), pp. 25-31. NY: Gallaudet UP.

Papers in refereed journals:

Vlaardingerbroek, B., Jaber, L.Z., Rizk, N. & Bayoud, J.M. (2009). The Lebanese Brevet chemistry and physics examinations: An exploratory study. *International Journal of Science and Mathematics Education*, 7, 1227-1427.

Vlaardingerbroek, B., Taylor, N. & Haig, T. (2009). Student transition to vocational education from middle secondary school in Australia and Lebanon: An exploratory study. *Mediterranean Journal of Educational Studies*, 14, 91-107.

Vlaardingerbroek, B. & El-Masri, Y.H. (2008). Student transition to upper secondary vocational and technical education (VTE) in Lebanon: From stigma to success. *Journal of Vocational Education and Training*, 60, 19-33.

Vlaardingerbroek, B., Jaber, L.Z. & El-Masri, Y.H. (2008). The Lebanese Brevet Professionnel: Resurgence of a lower secondary vocational track. *Journal of Vocational Education and Training*, 60, 413-422.

Vlaardingerbroek, B., Dallal, K., Rizkallah, G. & Rabah, J. (2007). A tracer study of Lebanese upper secondary school students. *International Journal of Educational Development*, 27, 564-571.

- Vlaardingerbroek, B. & Taylor, T.G.N. (2007). The environmental knowledge and attitudes of prospective teachers in Lebanon: A comparative study. *International Research in Geographical and Environmental Education*, 16, 120-134.
- Vlaardingerbroek, B. & Taylor, T.G.N. (2007). Upper secondary school physical science curricula in New Zealand after the National Qualifications Framework reforms. *International Journal of Science and Mathematics Education*, 5, 263-280.
- Vlaardingerbroek, B. (2006). Transition to tertiary study in New Zealand under the National Qualifications Framework and 'the ghost of 1888'. *Journal of Further and Higher Education*, 30, 75-85.
- Vlaardingerbroek, B. & El-Masri, Y.H. (2006). The status of evolutionary theory in undergraduate biology programmes at Lebanese universities: A comparative study. *International Journal of Educational Reform*, 15, 150-163.
- Rabah, J.Y. & Vlaardingerbroek, B. (2005). Teachers' and administrators' perceptions of the bullying problem in Lebanon. *Mediterranean Journal of Educational Studies*, 10, 115-123.
- Vlaardingerbroek, B. (2005). Smoothing the secondary-tertiary education interface: Developments in New Zealand following the National Qualifications Framework reforms. *Journal of Vocational Education and Training*, 57, 411-418.
- Vlaardingerbroek, B. (2005). Standards-based assessment with a difference: The impact of the New Zealand National Qualifications Framework reforms on secondary school science. *International Journal of Educational Reform*, 14, 309-325.
- Prophet, R.B. & Vlaardingerbroek, B. (2003). The relevance of chemistry education in Botswana: A cognitive developmental approach. *International Journal of Educational Development*, 23, 275-289.
- Taylor, N., Vlaardingerbroek, B. & Coll, R. (2003). Exploiting curriculum commonality in small island states: Some strategies for primary science curriculum development in the South Pacific. *International Journal of Science and Mathematics Education*, 2, 157-174.
- Vlaardingerbroek, B. & Taylor, T.G.N. (2003). Teacher education variables as correlates of primary science ratings in thirteen TIMSS systems. *International Journal of Educational Development*, 23, 429-438.
- Taylor, N. & Vlaardingerbroek, B. (2001). Reforming primary science through literacy: The Pacific Science Reading Series. *International Journal of Educational Reform*, 10, 347-355.
- Vlaardingerbroek, B. (2001). Botswana secondary students' perceptions of the education/employment nexus. *International Journal of Educational Development*, 21, 315-329.
- Taylor, N. & Vlaardingerbroek, B. (2000). A case study of educational planning for small developing nations: Pacific elementary science. *International Journal of Educational Reform*, 9, 155-162.
- Vlaardingerbroek, B. (1999). New Zealand Sixth Form Certificate assessment and policy issues 1986-1997: A case study – the sciences. *International Journal of Educational Reform*, 8, 45-52.
- Vlaardingerbroek, B. (1999). The external efficiency of education in the manufacturing sector of Gaborone, Botswana. *International Journal of Educational Development*, 19, 141-146.
- Roederer, C.J. & Vlaardingerbroek, B. (1998). Towards a role for social science teachers as community leaders in developing the law in Papua New Guinea. *Australia and New Zealand Journal of Law and Education*, 3, 72-90.
- Vlaardingerbroek, B. (1998). Challenges to reform: Botswana junior secondary school science teachers' perceptions of the development functions of science education. *International Journal of Educational Reform*, 7, 264-270.

- Vlaardingerbroek, B. (1998). The 'myth of greater access' in agrarian LDC education and science education: An alternative conceptual framework. *International Journal of Educational Development*, 18, 63-71.
- Vlaardingerbroek, B. (1997). 'Relevance' revisited: School science educational external efficiency and the production of appropriate human capital in agrarian developing countries. *Australian Journal of Education*, 41, 77-89.
- Vlaardingerbroek, B. & Roederer, C.J. (1997). Evolution education in Papua New Guinea: Trainee teachers' views. *Educational Studies*, 23, 363-375.
- Vlaardingerbroek, B. (1996). A market outcomes approach to the external efficiency of education: A Papua New Guinea local study. *International Journal of Educational Development*, 16, 141-146.
- Vlaardingerbroek, B. (1992). Integrated schooling of blind children in Papua New Guinea. *International Journal of Rehabilitation Research*, 15, 162-165.
- Vlaardingerbroek, B. (1990). Ethnoscience and science teacher training in Papua New Guinea. *Journal of Education for Teaching*, 16, 217-224.
- Vlaardingerbroek, B. & Ros, L. (1990). Educational transition rates and upper secondary students' arithmetical ability in five developing countries. *Educational Studies in Mathematics*, 21, 451-460.
- Vlaardingerbroek, B. (1989). Water level and temperature and zooplankton abundances in Lake Surinumu, Papua New Guinea. *International Journal of Biometeorology*, 33, 180-183.

Papers in other journals:

- Ramatlapana, K.A. & Vlaardingerbroek, B. (2001). Cooperative small-group learning in mathematics: A Botswana study of student behaviours and perceptions. *Mosenodi (Journal of the Botswana Educational Research Association)*, 9, 47-54.
- Vlaardingerbroek, B. (2000). The introduction of coursework assessment in Botswana senior secondary science: The role of DMSE-INSET. *Mosenodi (Journal of the Botswana Educational Research Association)*, 8, 59-68.
- Vlaardingerbroek, B. (1999). Trainee science teachers' views towards ethnoscience and science education in Botswana and Papua New Guinea. *Mosenodi (Journal of the Botswana Educational Research Association)*, 7, 3-20.
- Vlaardingerbroek, B. (1998). Prospective teachers' views towards evolution education in Botswana and Papua New Guinea. *JOSAARMSE (Journal of the Southern African Association for Research in Mathematics and Science Education)*, 2, 41-51.
- Vlaardingerbroek, B. (1998). Teaching Practice at the University of Botswana: An analysis of outcomes for the 1998 PGDE cohort. *Mosenodi (Journal of the Botswana Educational Research Association)*, 6, 41-50.
- Vlaardingerbroek, B. (1997). Fertility transition and education in Goroka, Eastern Highlands Province, Papua New Guinea. *Science in New Guinea*, 23, 115-120.
- Vlaardingerbroek, B. (1997). Monitoring the reforms: paradigms and parameters. *Papua New Guinea Journal of Education*, 33, 127-130.
- Vlaardingerbroek, B. (1996). Econometric approaches to educational planning: Balancing science and voodoo. *Papua New Guinea Journal of Education*, 32, 65-69.
- Vlaardingerbroek, B. (1995). The proposed greater role for vocational education in PNG secondary schooling: Some sobering considerations. *Papua New Guinea Journal of Education*, 31, 95-99.
- Vlaardingerbroek, B. & Olney, J. (1994). Harnessing science education to the production of endogenous scientific and technological capability. *Science in New Guinea*, 20, 71-76.

- Vlaardingerbroek, B. & Buchanan, J.D. (1993). Health education in Papua New Guinea; Grade 7 and 8 students' knowledge about selected health topics. *Science in New Guinea*, 19, 47-55.
- Vlaardingerbroek, B. & Wallace, W.D. (1992). Science teaching in Papua New Guinea: Staffing problems in our schools. *Science in New Guinea*, 18, 59-62.
- Vlaardingerbroek, B. (1991). Trainee teachers' ethnoscientific views of the paranormal variety and views on the role of ethnoscience in teacher education. *Papua New Guinea Journal of Education*, 27, 31-43.
- Vlaardingerbroek, B. (1989). The assessment of sixth form biology students in New Zealand. *Australian Biologist*, 2, 22-23.
- Vlaardingerbroek, B. (1985). Zooplankton of Lake Surinumu (Papua New Guinea). *Ecologia (Ac.Sci.USSR)*, 1985, 83-86. (Translated into Russian.)
- Vlaardingerbroek, B. (1984). Notes on zooplankton found in Lake Surinumu, Central Province, Papua New Guinea. *Journal and Proceedings of the Royal Society of New South Wales*, 117, 63-66.

Editorial functions:

Reviewer for the *International Journal of Educational Development*, 2000-present.

Reviewer for *Mosenodi (Journal of the Botswana Educational Research Association)*, 1998-2001.

Founding editor of the *Papua New Guinea Journal of Teacher Education*, 1993-1997.