

References

- Adler, J. (1991) Towards Democratic Mathematics Education in South Africa, in Julie C. (ed) *People's Mathematics: Early Ideas and Debates*. University of the Western Cape, Cape Town.
- Association for the Development of Education in Africa (ADEA) (2003a) Improving the Quality of Basic Education in Burkina Faso. Country Case Study.
<www.adeanet.org/biennial2003/papers/8Bc_Burkina_ENG_final.pdf> Accessed Jan 2008
- Association for the Development of Education in Africa (ADEA) (2003b) Monitoring Performance: Assessment and Examinations in Africa.
<www.adeanet.org/biennial2003/papers/2D_Monitoring_ENG_final.pdf>
- Association for the Development of Education in Africa (ADEA) (2003c) Pedagogical renewal and teacher Development in sub-Saharan Africa: A thematic Synthesis
<www.adeanet.org/biennial2003/papers/4A_synthesemartial_e_final.pdf>
- Association for the Development of Education in Africa (ADEA) (2003d) The Challenge of Learning: Improving the Quality of Basic Education in Sub Saharan Africa.
<www.adeanet.org/biennial2003/papers/Discussion_ENG.pdf>
- Association for the Development of Education in Africa (ADEA) (2003e) Implementation Matters: Exploring their Critical Role in Transforming Policies and Investments into Results
<www.adeanet.org/biennial2003/papers/9B_implementation_e.pdf>
- Atweh, B. & Clarkson, P. (2002a) *Globalized Curriculum or Global Approach to Curriculum Reform in Mathematics Education*. Asia Pacific Education Review, Vol. 3, No. 2, 160-167.
- Atweh, B. & Clarkson, P. (2002b) *Globalisation and Mathematics Education: from above and from below*. <www.aare.edu.au/02pap/cla02360.htm> Accessed March 2004
- Avenstrop R. & Swartz, P (undated) *Towards equitable diversity in education: Moves towards a paradigm shift*. <www.adeanet.org/wgnfe/publications/avenstrop_swartz.pdf> Accessed Jan 2007
- Baba, T. (2002) Significance of ethnomathematical research: Towards international cooperation with the developing countries, in Valero, P. & Skovsmose, O. (2002) (Eds.). Proceedings of the 3rd International MES Conference. Copenhagen: Centre for Research in Learning Mathematics, pp. 21-24. <www.congress-consult.com/mes3/Papers/Baba.doc>, Accessed April 2004
- Bah-Lalya I. & Sack, R. (2003) Implementation Matters: Exploring the Critical role in Transforming Policies and investments into Results. ADEA.
<www.adeanet.org/biennial2003/papers/9B_implementation_e.pdf> Accessed March 2004
- Banda, K. (1977) *A Brief History of Education in Malawi*. Zomba, Dzuka Publishing Company Limited (Copy photocopied from the library of the Malawi Institute for Education, Domasi)
- Beeby, C.E., (1966) *The Quality of Education in Developing Countries*, Harvard U. Press
- Belenky, M.F., Clinchy, B. M., Goldberger, N. R. & Tarule, J. M. (1986) *Women's ways of knowing: the development of self, voice and mind*. NY. Basic Books
- Binns Report (1953) *African Education: A study of policy and practice in British tropical Africa*. Nuffield Foundation and Colonial Office, Oxford, OUP
- Bishop, A.J. (1988) *Mathematical Enculturation: A cultural perspective on mathematics education*. Dordrecht: Kluwer.
- Bishop, A. J. (1990) Western mathematics: the secret weapon of cultural imperialism. *Race & Class*, 32(2), 51-65
- Bishop, A.J. (1991) Mathematics education in its cultural context. Harris, M. (ed) *Schools, mathematics and work*. Falmer Press.
- Bishop, A.J. (1998) Cultural conflicts and social change: conceptualising the possibilities and limitations of mathematics education. <www.nottingham.ac.uk/csme/meas/plenaries/bishop.html>

- Bissell, S. & Schiefelbein, E. (2002) Education to Combat Abusive Child Labor. Creative Associates, report to USAID <www.beps.net/child_labor/child_labor_index.htm> Accessed Jan 2008
- Bopape, M. (1998) The South African New Mathematics Curriculum: People's Mathematics for People's Power? <www.nottingham.ac.uk/csme/meas/papers/bopape.html> Accessed April 2004
- Breidid, A. (2004) Sustainable Development, Indigenous Knowledge Systems and Education in South Africa. *Journal of Teacher Education and Training*, Vol. 4, 2004. <dau.lv/ise/02/Breidlid_raksts.pdf> Accessed July 2004
- Carpenter, T. P., Blanton, M. L., Cobb, P., Franke, M. L., Kaput, J., & McCain, K. (2004) Scaling up innovative practices in mathematics and science. Madison: University of Wisconsin-Madison, National Center for Improving Student Learning and Achievement in Mathematics and Science. <<http://www.wcer.wisc.edu/ncisla/publications/reports/NCISLARReport1.pdf>> Accessed Jan 2008
- Chamdimba, P.C. (2002) *Co-operative learning and gender in mathematics education: A case study in a Malawian secondary school*, PhD dissertation, University of Waikato, Hamilton, NZ
- Chawanje-Mughogho, C. & Chamdimba, P. (2005) Education of the girl child in Malawi - the role of FAWEMA <www.sdn.org.mw/~hosea/workshops/march2005conference/papers/Fax00000040.pdf>
- Chilora, H. & Harris, A. (2003) *Teacher and Pupil Home language: Implications for learning*. IEQ/AIR <http://www.ieq.org/pdf/Teacher-Pupil_Home_Lang.pdf> Accessed Jan 2008
- Chilora, H., Jessee, C. & Heyman, C (2003) *Investigating pupils' performance on mathematics word problems in lower primary school in Malawi*. IEQ/AIR <http://www.ieq.org/publications_country.html> Accessed Jan 2008
- Chimombo, J.P.G. (2005) Quantity versus quality in education: cases studies in Malawi. *International Review of Education* 51:155-172
- Chimombo, J.P.G., M. Chibwana, C. Dzimadzi, E.C. Kadzamira, E. Kunkwenzu, D. Kunje D., & Nampota (2000) *Classroom, school and home factors that negatively affect girls' education in Malawi*. Centre for Educational Research and Training, University of Malawi, <www.unicef.org/evaldatabase/index_15354.html>
- Chirwa, G. (2007) An evaluation of challenges Standard 1 teachers in two State primary schools in Domasi, Zomba district, Malawi, face in teaching Expressive Arts outcomes-based-education curriculum, in 2007. Unpublished Honours paper. University of the Witwatersrand
- Colclough, C. et al (2005) *EFA Global monitoring Report – The Quality Imperative* <portal.unesco.org/education/en/ev.phpURL_ID=35939&URL_DO=DO_TOPIC&URL_SECTION=201.html>
- Creed, C. (2001) The use of distance education for teachers (Report for DFID) International Research Foundation for Open Learning. <www.irfol.ac.uk/publications/publications.html> Accessed July 2004
- Croft, A. (2002a) 'Singing under a tree: does oral culture help lower primary teachers be learner-centred?' in *International Journal of Educational Development* 22, pp. 321–337, 2002 <linkinghub.elsevier.com/retrieve/pii/S0738059301000633> Accessed Jan 2008
- Croft, A. (2002b) *Pedagogy in school context: an intercultural study of the quality of learning, teaching and teacher education in lower primary classes in Southern Malawi*. PhD dissertation, University of Sussex
- Croft, A. (2002c) 'Whose knowledge counts? Professional development throughout a teaching career in Malawi', Paper presented to BAICE conference, Nottingham, September 6-8, 2002
- Croft, A. (2004) Private correspondence
- Dachs, T.E. (1998) Large-class teaching; a pilot study of eight Grade 5 classrooms in kwaZulu-Natal. Johannesburg. Joint Education Trust. <www.jet.org.za/page.php?p_id=120>

- Diphofa, M. (1997) President's Education Initiative: Final report of Phase 1. Johannesburg: JET <www.jet.org.za/page.php?p_id=120> Accessed August 2004
- du Plessis, J. (2003) *Rainbow Charts and Coconuts: Teacher development for Continuous Assessment in Malawi Classrooms*. IEQ/AIR <http://www.ieq.org/pdf/Rainbow_Charts_Coconuts.pdf> Accessed Jan 2008
- Ellis, F., Kutengule, M., & Nyasulu, A. (2002) Livelihoods and Rural Poverty Reduction in Malawi. LADDER Working Paper No. 17 <www1.uea.ac.uk/polopoly_fs/1.1004!wp17.pdf> Accessed Jan 2008. Also in *World Development*, Vol.31, No.9, pp.1495-1510
- EMIS, Malawi (2000) Education Statistics 2005. Government of Malawi.
- EMIS, Malawi (2004) Education Statistics 2005. Government of Malawi.
- EMIS, Malawi (2005) Education Statistics 2005. Government of Malawi.
- Fasheh, M. (1997) Is math in the classroom neutral—or dead? *For the learning of Mathematics*, 17(2), 24-27
- Fasheh, M. (2000) The trouble with knowledge. Paper presented at EXPO 2000: A global dialogue on "Building Learning Societies – Knowledge, Information and Human Development". www.swaraj.org/shishantar/resources/fasheh.html, Accessed Feb 2004
- Fasheh, M. (1982) "Mathematics, Culture and Authority", *For the Learning of Mathematics*, 3(2), pp.2-8. Also in Powell, A. and Frankenstein, M. (Eds.) (1997) *Ethnomathematics: challenging the Eurocentrism of mathematics education*. NY Suny Press
- FAWE (Forum of African Women Educationalists) (2001) Girls' Education and Poverty Eradication - FAWE's Response. Paper presented at the Third United Nations Conference on the Least Developed Countries, Brussels, 2001. <www.fawe.org/publications/GESeries/GEdpoverad.pdf> Accessed August 2004
- FEMSA (2000) *FEMSA Report 2000* <www.fawe.femsa.org> Accessed April 2004
- FEMSA (2003) Improving girls' participation in SMT subjects: The FEMSA Experience in Malawi. <www.fawe.org/femsa/Engbk10.rev.htm> Accessed February 2007
- Forgasz, H.J., Leder, G.C., & Kloosterman, P. (2004) New Perspectives on the gender stereotyping of mathematics. *Mathematical Thinking and Learning*, 6, 389-420
- Frankenstein, M. (1989) Mathematics anxiety: misconceptions about learning mathematics. *Relearning mathematics: A different Third R – Radical Maths*. Free Assoc. Press (pp. 17-26)
- Frankenstein, M. (2002) Reading the world with maths: Goals for a Criticalmathematical Literacy Curriculum <www.nottingham.ac.uk/csme/meas/papers/frankenstein.html> Accessed Jan 2008
- Furley, O.W. & Watson, T. (1978) *A History of Education in East Africa*. New York: NOK
- Government of Malawi (2002) Malawi Poverty Reduction Strategy <www.imf.org/External/NP/prsp/2002/mwi/01/index.htm> Accessed February 2007
- Government of Malawi, MoEST (2004) Education for all Action plan. Unpublished
- Government of Malawi, National Economic Council (1998) Vision 2020, National Long Term Perspective Study. Volume 1. Government Press, Zomba <www.sdn.org.mw/~esaia/ettah/vision-2020/>
- Greer, B. and Mukhopadhyay, S. (2003) What is mathematics education for? *The Mathematics Educator*, 2003 Vol. 13, No. 2, 2-6 <math.coe.uga.edu/tme/v13n2/v13n2.Greer.pdf>
- Harris, A. & Schubert, J. (2001) *Defining "quality" in the midst of HIV/AIDS: The ripple effects in the classroom*. EQ/AIR <www.ieq.org/pdf/Defining_Quality_HIV-AIDS.pdf> Accessed Jan 2008
- Hoffman-Barthes, A.M., Nair, S & Malpede, D. (1999) *Scientific, Technical and Vocational Education of girls in Africa: summary of 21 national reports*. <www.unesco.org/education/educprog/ste/pdf_files/girls/reports.pdf> Accessed Jan 2008

- Hoppers, W. (2005) Community Schools as an educational alternative in Africa: a critique. *International Review of Education* (2005) 51:115–137
- Howie, S.J. (1999) National assessment in an international context: Building capacity and expertise in South Africa. Paper presented at World Bank Conference on Human Development, March 3-5. <www.adeanet.org/biennial2003/papers/2D_Monitoring_ENG_final.pdf>
- Hulton, L. & Furlong, D. (2001) Gender equality in education: a select annotated bibliography DFID <www.ids.ac.uk/bridge/Reports/bb10edw2.doc> Accessed August 2004
- Hyde, K.A.L & Miske, S. (2000) *Education for all Assessment: Thematic Study: Girls' Education*. UNESCO <unesdoc.unesco.org/images/0012/001233/123332e.pdf> Accessed Jan 2008
- IEQ/Malawi (2003a) *Exploring factors that influence Teaching and Learning: Summary findings from the IEQ/Malawi Longitudinal study 1999-2002*. Volume 1. IEQ/AIR <www.ieq.org/publications.html#Pubs> Accessed Jan 2008
- IEQ/Malawi (2003b) *Exploring factors that influence Teaching and Learning: Collection of selected studies using the IEQ/Malawi Longitudinal data 1999-2002*. Volume 2. IEQ/AIR <www.ieq.org/publications.html#Pubs> Accessed Jan 2008
- IEQ/Malawi (2003c) Continuous assessment for Standard 3: A training manual for educators in Malawi. <www.ieq.org/publications.html#Pubs> Accessed Jan 2008
- Israel, R. (2001) 'Education and Democracy' in *The Quality Link, the newsletter of the Improving Educational Quality Project, Spring 2001*. <www.ieq.org/publications.html#Pubs> Accessed Jan 2008
- Ivowi, U. (2001) *Role of teachers in motivating students' interest in Science and mathematics*. IICBA - Newsletter . March 2001, Vol.3, No.1 <[www.unesco-iicba.org/Resources/vol 3 no 1 english.pdf](http://www.unesco-iicba.org/Resources/vol%203%20no%201%20english.pdf)> Accessed Mar 2004
- Jessee, C., Mchazime, .H, Dowd, A.J., Winicki, F., Harris, A. & Schubert, J. (2003) *Exploring factors that influence Teaching and Learning: Collection of selected studies using the IEQ/Malawi Longitudinal data 1999-2003*. Volume 1 IEQ/AIR <www.ieq.org/publications.html#Pubs> Accessed Jan 2008
- Kadyoma, F.F.R. (2004) Learning milieu for primary school teachers in Malawi: perspectives, practices and policies. Doctoral thesis. University of Massachusetts Amhearst <scholarworks.umass.edu/dissertations/AAI3136743/> Accessed Jan 2008
- Kadzamira, E. (2005) Complementary Basic Education for Malawi: A Needs Analysis, Centre for Educational Research and Training (CERT), August – September 2005. Unpublished
- Kamangira, Y. (2003) *Feasibility of a large scale implementation of Continuous Assessment as a stimulus for Teacher Development in Malawi*. IEQ/AIR <www.ieq.org/publications.html#Pubs> Accessed Jan 2008
- Kaphesi, E. (2001) *Effects of home language on pupils' performance in mathematics" a focus of the IEQ/Malawi project*. IEQ/AIR <www.ieq.org/publications.html#Pubs> Accessed Jan 2008
- Kaphesi, E.S. (2001) *The use of language in mathematics teaching in primary schools in Malawi; bringing language to the surface as an explicit feature of the teaching of mathematics*. Unpublished PhD thesis. University of Nottingham. UK
- Kaunda, Z. & Kendall, N (2001) Prospects for Educating for Democracy in Struggling Third Wave Regimes: the case of Malawi. in *Current Issues in Comparative Education, 4(1)*. Teachers College, Columbia University <www.tc.columbia.edu/cice/Archives/4.1/41kaunda_kendall.pdf> Accessed Jan 2008
- Keitel, C. (1997) Numeracy and scientific and technological literacy. In W.E. Jenkins (Ed.) *Innovations in Science and Technology, Volume VI*. Paris: UNESCO.
- Kellaghan, T. & Greaney, V. (2003) Monitoring Performance: Assessment and Examinations in Africa. Paper prepared for ADEA Biennial Meeting 2003 <www.adeanet.org/biennial2003/papers/2D_Monitoring_ENG_final.pdf>

- Kishindo, E.C., Susuwele-Banda, W., Ndalama, L.J. & Mwale, L. (2005) *Assessing pupils' achievement in Malawian Primary Schools: A Study of 12 districts (unpublished)*. Domasi, Malawi: Malawi Institute of Education.
- Kunje D & Chimombo J (1999) Malawi: A Baseline Study of the Teacher Education System MUSTER Discussion Paper No 5, Centre for International Education, University of Sussex. <www.id21.org/education/E3dk1g1.htm> Accessed Jan 2008
- Kunje D with Lewin K.M. & Stuart, J.S. (2002) Primary Teacher Education in Malawi: Insights into Practice and Policy. MUSTER Research Report No 3, Centre for International Education, University of Sussex. <www.dfid.gov.uk/pubs/files/primteachmalawiedpaper49d.pdf>
- Lamba, I.C. (1984) 'The Nyasaland Post-war Development Plan: A historical examination of African Education Development strategies up to 1961 with particular reference to primary and secondary sectors', in *Centre of African Studies Malawi: an alternative pattern of development*, Proceedings of a seminar held in the Centre of African Studies, University of Edinburgh, May 1984, p. 151-186.
- Lefoka, J.P., Mafela, L. & Simelane, M. (2003) *Poverty Alleviation Strategies in Education. Research submission by ERNESA Regional Office, Lesotho*.
- Logan, B.I. & Beoku-Betts, J.A. (1996) Women and education in Africa: an analysis of economic and sociocultural factors influencing observed trends, *Journal of Asian and African Studies*, 31(3): 217-239
- Lopez, R. & Valdes, A. (2000) *Fighting rural poverty in Latin America: new evidence of the effects of education, demographics and access to land*. Economic Development and Cultural Change, Vol. 49, No. 1. (Oct., 2000), pp. 197-211.
<www.journals.uchicago.edu/cgi-bin/resolve?EDCCv49p197PDF> Accessed January 2008
- Lwanda, J. (2003) Orality, Music and HIV/AIDS: Interrogating the Malawian popular public sphere, in *African Studies Association of Australasia and the Pacific, 2003 conference proceedings- Africa on the Global Stage* <www.afsaap.org.au/Conferences/2003/Lwanda.pdf> Accessed Jan 2008
- Malaney, P. (2000) *The Impact of HIV/AIDS on the Education Sector in Southern Africa. Discussion Paper. CAERII project. Harvard*. <[CAER HIV impact on afrique.sud.pdf](http://CAERHIVimpactonafrique.sud.pdf)> Accessed Jan 2008
- Malawi School Support Systems Program (MSSSP) (undated, about 1998) Accessed Jan 2008
<[www1.worldbank.org/education/est/resources/case studies/Malawi-teacher development.doc](http://www1.worldbank.org/education/est/resources/case%20studies/Malawi-teacher%20development.doc)>
- Manyaga, M. (2001) *Participatory approach revives adult education in Tanzania. Report to the World Education Forum*. Accessed Jan 2008
<www.unesco.org/education/efa/know_sharing/grassroots_stories/tanzania.shtml>
- Marope, M. & Sack, R. (2001) 'What works and what's new in education: Africa speaks!' Association for the Development of Education in Africa (ADEA) <www.eldis.org/static/DOC11574.htm> Accessed Jan 2008
- Mbilinyi, D.A.S (2003) Equity in learning: the gender dimension. ADEA.
<www.adeanet.org/biennial2003/papers/3A_FAWE_eng_final.pdf> Accessed Jan 2008
- Mchazime, H. (2003) Integrating primary school curriculum and continuous assessment in Malawi. IEQ/AIR <www.ieq.org/publications.html#Pubs> Accessed Jan 2008
- McIntosh, A. & Dole, S. (2000) Number sense and mental computation: implications for numeracy. In *Improving numeracy learning. ACER conference proceedings. Melbourne, ACER*.
<www.acer.edu.au/workshops/documents/conference_proceedings2000.pdf> Accessed April 2004
- Mellin-Olsen, S. (1987) *The politics of mathematics education*. Reidel
- Miller-Grandvaux, Y. & Yoder, K. (2002) A Literature Review of Community Schools in Africa. SARA project. <sara.aed.org/sara_pubs_list_sara_4.htm> Accessed Jan 2008
- Milner, G., Chimbombo, J, Banda, T. & Mchikoma, C. (2001) The quality of primary education in Malawi. UNESCO

- Ministry of Education, Science and Technology (2004) *Primary Curriculum and Assessment Reform (PCAR) Report*. Domasi: Malawi Institute of Education.
- Ministry of Education, Sports and Culture: Malawi Education Sector (2001) *Policy and Investment Framework (PIF)* <www.sdn.org.mw/edu/new/min-education/whole.htm> Accessed Jan 2008
- Miske, S. & VanBelle-Prouty, D. (1997) Schools are for girls too. Health and Human Resources Research for Africa Project USAID, SARA project. <www.dec.org/pdf_docs/PNABZ885.pdf> Accessed August 2004
- Miske, S., Schmidt, S. and Santhe, E. (2003b) *Findings from an exploratory study of teachers' beliefs and practices about pupil assessment in Malawi*. IEQ, AIR. <www.ieq.org/publications.html#Pubs> Accessed Jan 2008
- MoEC - Ministry for Education and Culture (1991) *Syllabus for Primary Mathematics*. Domasi.
- MoESC – Ministry of Education, Sports and Culture, Malawi Education Sector: (2001) *Policy and Investment Framework (PIF)*. <www.sdn.org.mw/edu/new/min-education/whole.htm> Accessed Jan 2008
- MoEST- Ministry for Education, Science and Technology (2004) *Draft Education for all Action Plan*. Unpublished. Lilongwe.
- MoEST - Ministry for Education, Science and Technology (2005) *Education Strategic Plan*. Unpublished. Lilongwe.
- MoEST & MIE (2004) *Primary Curriculum and Assessment Reform (PCAR), Learning area finalisation Seminar report*, Liwonde, Malawi
- Moleni, C.M. (2004) *An investigative study of the abuse of girls in Malawian schools: Dissemination and strategy workshop – Follow up report*. CERT, University of Malawi
- Monk, M. (2001) *In service education for Teacher Development in Sub-Saharan Africa - A review of Literature published between 1983-1997 - Education research Paper No. 30*. London: DFID <www.dfid.gov.uk/pubs/files/inservteachsaharaedpaper30.pdf> Accessed Jan 2008
- Moser, C., M'Chaju-Liwewe, O., Moser, A., & Ngwira, N. (2004) DFID Malawi Gender Audit: Evaporated, invisibilized or resisted? <www.dfid.gov.uk/pubs/files/gender-audit-malawi1.pdf> Accessed January 2008
- Moulton, J. (1997a) Formal and Nonformal Education and Empowered Behavior: A Review of the Research Literature. USAID, SARA project. <www.dec.org/pdf_docs/PNACB230.pdf> Accessed August 2004
- Moulton, J. (1997b) *How Do Teachers Use Textbooks? A Review of the Literature* USAID, Sara Project. <www.dec.org/pdf_docs/PNACB240.pdf> Accessed August 2004
- Moulton, J., Mundy, K., Welmond, M. & Williams, J. (2001) Paradigm lost? The implementation of basic education reforms in Sub-Saharan Africa. USAID Office of Sustainable Development, Bureau for Africa <pdf.usaid.gov/pdf_docs/PNACL477.pdf> Accessed Jan 2008
- Moyo, C. M. (1992) 'Formal Education Policy and Strategy in Malawi, 1964-1990', in Mhone, G.C.Z. (Ed.) *Malawi at the Crossroads: The Post-colonial Political Economy*, Harare, Sapes Books.
- Mukhopadhyay, S. (2000) The good, the bad and the ugly: alternative visions of mathematics education. <www.evergreen.edu/washcenter/fall2000/page29-34> Accessed August 2004
- Mulawa-Banda, D. (2003) Gender sensitive educational policy and practice: the case of Malawi <unesdoc.unesco.org/images/0014/001468/146804e.pdf> Accessed Jan 2008
- Mulemwa, J. (1999) *Scientific, Technical and Vocational Education of Girls in Africa*. UNESCO working document. <www.unesco.org/education/educprog/ste/pdf_files/girls/background.pdf> Accessed Jan 2008
- Mulkeen, A. (2005) Teachers for Rural Schools: A Challenge for Africa. Ministerial Seminar on Education for Rural Peoples in Africa: Policy Lessons, Options and Priorities, Addis Ababa,

- September 7-9 <www.adeanet.org/biennial-2006/doc/document/B2_2_mulkeen_en.pdf> Accessed Jan 2008
- Munthali, G. (2003) *Two dead, seven injured in school accident*. Malawi Times. 30 September 2003
- Mwakapenda, W.W.J. (2000) *Using everyday experiences in teaching secondary mathematics in Malawi: possibilities and constraints for change*. PhD dissertation, Melbourne, Deakin University
- National Statistical Office (2001) *The 1998 Population and Housing Census*. Government of Malawi. <www.ifpri.org/themes/mp18/malawipms.htm> Accessed Jan 2008
- Ngwira, K & Ngwira, K (2000) *Analysis of Vulnerable Children*. UNICEF
- O'Connor, J.P. (2001) Teachers are the Problem, not Girls! in IICBA - Newsletter . March 2001, Vol.3, No.1 p. 5 <www.unesco-iicba.org/newsletters/ByVol/EN/Vol.3No1,March2001EN.pdf>
- O'Gara, C., Benoliel, S., Sutton, M. & Tietjen, K. (1999) *More, but not yet better: An evaluation of USAID's programs and policies to improve girls' education*. USAID <www.eric.ed.gov/ERICWebPortal/recordDetail?accno=ED440808> Accessed Jan 2008
- Okyere, B.A. & Harris, A.M. (1997). *What Happens to the Textbooks?* Arlington, VA: Institutes for International Research. <www.ieq.org/pdf/researchbrief-textbooks.pdf> Accessed January 2008
- Omari, C.K. (1999) The informal sector: the missing link in entrepreneurship research, in Ratashobya, L.K. & Olomi, D.R. *African entrepreneurship and small business development*, Dar es Salaam University Press
- Ottevanger, W., van den Akker, J. & de Feitere, L. *Developing Science, Mathematics and ICT in Secondary Education: Patterns and Promising practices* (2003) <www.worldbank.org/afr/seia/them_VUA_SMICT.pdf>
- Rose, P. (2002) *Cost-sharing in Malawian primary schooling: From the Washington to the post-Washington consensus*, Unpublished DPhil thesis: University of Sussex
- Schonheimer, H. (1975) Mathematics could be vital, in Williams, D. (ed.) *Perspective in teaching mathematics*. Melbourne, Mathematical Association of Victoria
- Setati, M. (2003) Researching mathematics education and language in multilingual South Africa. <math.coe.uga.edu/tme/issues/v12n2/v12n2.Setati.pdf>
- Setati, M. & Adler, J. (2001) Between languages and discourses: Language practices in primary multilingual mathematics classrooms in South Africa. Mathematics Department: University of the Witwatersrand. <www.springerlink.com/content/r246n61u117l6024/> Accessed Jan 2008
- Setati, M., Adler, J., Reed, Y. & Bapoo, A. (2002) Incomplete Journeys: Code-switching and other language practices in mathematics, science and English language classrooms in South Africa. *Language and Education*. 16(2).128 - 149. <www.multilingual-matters.net/le/016/0128/le0160128.pdf> Accessed Jan 2008
- Skemp, R. (1976) Relational and Instrumental Understanding. *Mathematics Teaching*, #77. (or *Arithmetic Teacher*. 26(3), 9-15.)
- Skovsmose, O. (2001) *Landscapes of investigation*. <www.springerlink.com/content/wk26636g27479h83/> Accessed Jan 2008
- Skovsmose, O. (1998) *Linking Mathematics Education and Democracy: Citizenship, Mathematical Archaeology, Mathemacy and Deliberative Interaction*. ZDM, 98/6 <www.emis.de/journals/ZDM/zdm986a5.pdf> Accessed Jan 2008
- Stigler, J. W., & Hiebert, J. (1999). *The Teaching Gap: Best Ideas from the World's Teachers for Improving Education in the Classroom*. New York: The Free Press.
- Stuart, J.S., & Kunje, D. (2000) *MUSTER (Multi-Site Teacher Education Research Project) Discussion paper 11: The Malawi Integrated In-Service teacher Education Project: an analysis of the curriculum and its delivery in the colleges*. Sussex, UK: University of Sussex, Institute of Education, Centre for International Education. <www.chanco.unima.mw/cert_site/publications.htm> Accessed Jan 2008

- Susuwele-Banda, W.J. (2005) *Classroom Assessment in Malawi: Teachers' Perceptions and Practices in Mathematics*. Unpublished PhD thesis, Blacksburg, Virginia, Virginia Tech. <scholar.lib.vt.edu/theses/available/etd-02212005-131851/unrestricted/wjsb_dissertation_JAN2005.pdf> Accessed Jan 2008
- Swainson, N. (2000) 'Knowledge and Power: The Design and Implementation of Gender Policies in Education in Malawi, Tanzania and Zimbabwe' in *International Journal of Educational Development* No. 20. Sussex University, UK, 2000. <[dx.doi.org/10.1016/S0738-0593\(99\)00047-4](http://dx.doi.org/10.1016/S0738-0593(99)00047-4)> Accessed Jan 2008
- Teal, F. (2001) Education, incomes, poverty and inequality in Ghana in the 1990s. <www.csae.ox.ac.uk/conferences/2002-UPaGiSSA/papers/Teal-csae2002.pdf> Accessed Jan 2008
- Terry, J.O., Slack, J. & Licio, B. (1996) *Chronological Bible Storying: An Introduction to the Oral Communication of the Bible*. <www.chronologicalbiblestorying.com/resources/cbs_resources_part_1.htm> Accessed Jan 2008
- Tiede, E. & Machazime, H (2004) Piloting children's language of play in selected languages in Malawi. In Pfaffe, J. (ed.) *Making multi-language education a reality for all*. Zomba. University of Malawi. P363–369
- Tikly, L P, Crossley, M, Lowe, J, Dachi, H, Garrett, R M & Mukabaranga, B (2003) *Globalisation and Skills for Development in Rwanda and Tanzania*, London: DFID <www.dfid.gov.uk/pubs/files/globskilldevedpaper51.pdf> Accessed Jan 2008
- UNDP (2002) *Human development report 2002: deepening democracy in a fragmented world*. <hdr.undp.org/en/reports/global/hdr2002/> Accessed Jan 2008
- UNESCO (2000) Dakar Framework for action. UNESCO. <www.unesco.org/education/efa/ed_for_all/dakfram_eng.shtml> Accessed Jan 2008
- UNESCO (2005) Education for all Global monitoring report – the quality imperative <portal.unesco.org/education/en/ev.php-URL_ID=35939&URL_DO=DO_TOPIC&URL_SECTION=201.html> Accessed Jan 2008
- Vincent, S. (ed.) (1999) *The multi-grade classroom: a resource for small, rural schools*. Northwest Regional Educational Laboratory. <http://curriculum.wcape.school.za/site/47/page/view/370>, Accessed Mar 2004
- Vithal, R. & Valero, P. (2003) Researching mathematics education in situations of social and political conflict. In A. Bishop et al. (Eds.), *Second International Handbook of Mathematics Education* (pp. 545-592). Dordrecht : Kluwer.
- Vithal, R. (2000) *In search of a pedagogy of conflict and dialogue for Mathematics education*. Aarlborg University Center: PhD dissertation.
- Volmink, J. (1994) Mathematics by all. In Lerman, S. (ed.) *Cultural perspectives on the mathematics classroom*, 51–67
- Ward, M., Bourne, J, Penny, A. & Poston, M. (2003) Why do education policies in East Africa fail? What's changing? *Journal of Education*, 30:127-148. <www.ukzn.ac.za/joe/joe.pdf> Accessed Jan 2008
- Wells, S. (2002) *The Journey of Man: A genetic odyssey*. Allen Lane. Penguin
- Wodon, Q., Castro-Fernandez, R., Lee, K, Lopez-Acevedo, G., Siaens, C., Sobrado, C., Tre, J. (2001) *Poverty in Latin America: Trends (1986-1998) and determinants*. <ideas.repec.org/a/ioe/cuadec/v38y2001i114p127-153.html> Accessed Jan 2008
- Wolf, J.M. (1995) *An analysis of USAID programs to improve equity in Malawi and Ghana's education systems*. USAID Bureau for Africa. <sara.aed.org/sara_pubs_list_usaid_4.htm> Accessed Jan 2008
- Wolf, J. & Odonkor, M. (1997) *How Educating a Girl Changes the Woman She Becomes: An Intergenerational Study in Northern Ghana*. ABEL Technical Paper 8, USAID, SARA project <sara.aed.org/sara_pubs_list_usaid_4.htm> Accessed Jan 2008

- Wolf, J., Lang, G., Bekett Mount, L.L. and Van Belle-Prouty, D. (1999) *Where policy hits the ground: policy implementation processes in Malawi and Namibia*. USAID, SD Tech paper 95. <sara.aed.org/sara_pubs_list_usaid_4.htm> Accessed Jan 2008
- Woodhouse, D. (1973) Modern Mathematics in East Africa: A survey, 1961 – 1971, in The Australian Mathematics Teacher, 29:4, 215-224, Dec. 1973
- World Conference on Education for All (1990) World Declaration on Education for All: Meeting Basic Learning Needs <www.un-documents.net/jomtien.htm> Accessed Jan 2008
- World Education Forum (2000) Final Report, World Education Forum, Dakar, Senegal, April 2000. UNESCO,
- Young, D. (2000) *The Massification of Mathematics Education and the role of Globalisation*. <math.unipa.it/~grim/EAYoung12-25> Accessed Jan 2008

Bibilography

- AAMT (1998) *Policy Statement on Numeracy in Australian Schools, 1998* <www.aamt.edu.au/documentation/statements/policy_on_numeracy_education_in_schools_1998> Accessed Jan 2008
- Agatucci, C. (undated) Humanities 211 Culture(s) & Literature(s) of Africa. Part III: African Slave Trade & European Imperialism. <http://web.cocc.edu/cagatucci/classes/hum211/timelines/htimeline3.htm>, Accessed Feb 2004
- Appleton, S. (2001) Education, incomes and poverty in Uganda in the 1990s. CREDIT, University of Nottingham. <www.eldis.org/static/DOC9684.htm> Accessed January 2007
- Archer, D. and Cottingham, S. (1996) *REFLECT Mother manual. Introduction*. <www.reflect-action.org/resources/publications/mothermanual/contents.htm> Accessed Jan 2008.
- Association for the Development of Education in Africa (ADEA) (1999) SPESSA – Statistical Profile of Education in Sub-Saharan Africa. Association for the Development of Education in Africa. www.adeanet.org/spessa99/en_install.html, Accessed Feb 2004
- Austin, G. (1999) Background note on Civil Strife and Poverty in Sub-Saharan Africa for the WDR 2000/2001. <www.worldbank.org/poverty/wdrpoverty/background/austin.pdf> Accessed Feb 2004
- Awedoba, A.K. (2001) Examining the Cases: Attitudes Towards an Instruction in the Local Language. IEQ/Ghana. AIR. <www.dec.org/pdf_docs/PNACL067.pdf> Accessed Mar 2004
- Baber, S.A. (2003) Mathematics Education for Critical Citizenship. in Mundel, K and Schugurensky, D (eds) *Lifelong Citizenship Learning, Participatory Democracy and Social Change*. Learning Centre, Ontario Institute for Studies in Education, University of Toronto
- Beeby, C.E. (1980) The Thesis of Stages Fourteen Years Later, *International Review of Education*, 26, 451-474.
- Bernstein, B. (1996) *Pedagogy, Symbolic Control and Identity: Theory, Research, Critique*. London, Taylor and Francis
- Bonotto, C. (1999) How to innovate mathematics teaching taking social and cultural changes into account. <<http://math.unipa.it/~grim/EBonotto76-85>> Accessed April 2004
- Bonotto, C. (2001) How to connect school mathematics with students' out-of-school knowledge. <<http://subs.emis.de/journals/ZDM/zdm013a3.pdf>> Accessed Jan 2008
- Borba, M. (1997) Ethnomathematics and Education. in Powell, A. and Frankenstein, M. (Eds) *Ethnomathematics: challenging the Eurocentrism of mathematics education*. NY Suny Press
- Brembeck, C.S. (1973) Educational Aspirations as a new social force. in Brembeck, C.S. & Hill, W.H. (eds.) *Cultural Challenges to Education: the influence of cultural factors in school learning*. Lexington, Mass., Lexington Books.

- Bucknall, G. (1995) Building bridges between Aboriginal and Western mathematics. *The Aboriginal child at school*, 23 (1): 22-31
- Burkhardt, H. (1981, reprinted 1984) *The real world and mathematics*. London, Blackie
- Chafa, J. (2002) *Informal Sector Programmes in TEVET*. <http://nnuc.evtek.fi/tvet_seminar_02/> (Accessed Feb 2004)
- Chamdimba, P.C. (2002) Cooperative learning methods: The challenges of doing mathematics education research in developing countries: a Malawian experience. The Smarter Network, <http://projects.edte.utwente.nl/smarternet/version2/Case/Societal/Dsoc-pra-mw_prt.htm> Accessed Jan 2008
- Chokshi, S. M. (2002) Common Myths and Misconceptions about Lesson Study. In *Teacher to Teacher: Reshaping Instruction through Lesson Study* (pp. iii–iix). Naperville, IL: North Central Regional Educational Laboratory (NCREL)
- Christie, M. (1988) The invasion of Aboriginal education. In Harvey, B. & Mc Ginty, S. (Eds.) *Learning my way: papers from the national conference on adult Aboriginal learning* (pp. 5-19). Perth: Institute of Applied Aboriginal Studies, WACAE
- Civil, M. & Andrade, R (2002) Transitions between home and school mathematics: Rays of hope amidst the passing clouds. In Abreu, G, Bishop, A.J, and Presmeg, N.C. (eds) *Transitions between contexts of mathematical practices*, Kluwer, 149-169
- Cobern, W.W. & Aikenhead, G. (1997) Cultural aspects of learning science. Paper presented at the 1997 annual meeting of the National Association for Research in Science Teaching, Chicago, March 1997. <www.wmich.edu/slscsp/SLCSP121/slscsp121long.pdf>, Accessed Jan 2008
- Cohen, D. & Reid, E. (1996) The vulnerability of women: Is this a useful construct for policy and programming? Issues paper # 28, UNDP. <www.undp.org/hiv/publications/> Accessed Feb 2004
- Colclough, C., Rose, P. & Tembon, M. (2000) *Gender Inequalities in Primary Schooling: The roles of poverty and adverse cultural practice*, International Journal of Educational Development Vol. 20/1: 5-27
- Cottingham, S. (1998) *REFLECT with children. PLA Notes (Education Action 9)* Issue 32, pp.88–91, IIED London. Accessed Jan 2008
<www.reflect-action.org/resources/publications/PLANotes/engplanotes/cottingham.ht>
- Cramer, C. (1999) The Economics and political Economy of Conflict in Sub-Saharan Africa. Discussion paper for the Centre for Development Policy & Research (CDPR)
<www.soas.ac.uk/academics/centres/cdpr/publications/papers/24327.pdf> Accessed Jan 2008
- CREDE (2003) Linking home and school: A bridge to the many faces of mathematics; the BRIDGE project. <www.crede.ucsc.edu/research/md/intro4_2.shtml> Accessed April 2004
- Croft, A. (2000) *Gender gaps in schools and colleges: can teacher education policy improve gender equity?* MUSTER discussion paper. CIEIE, University of Sussex
<www.sussex.ac.uk/education/documents/discussion_paper_14.pdf> Accessed Jan 2008
- Crossley, M. & Guthrie, G. (1987) Current research in developing countries: INSET and the impact of examinations on classroom practice. *Teaching and Teacher Education*, 3(1): 65-76
- D'Ambrosio, U. (1985 and 1997) Ethnomathematics and its Place in the History and Pedagogy of Mathematics, in *For the learning of mathematics* 5(1): 41-48, and reprinted in Powell, A. and Frankenstein, M. (Eds.) (1997) *Ethnomathematics: challenging the Eurocentrism of mathematics education*. NY Suny Press
- DANIDA (2000) 1996-3 - *The setting of PEP*. <www.um.dk/danida/evalueringsrapporter/1996-3/1996-3.3.asp>, Accessed Feb 2004
- De Abreu, G (1995) Understanding how children experience the relationship between home and school mathematics. *Mind, Culture and Activity*. 2(2) 1995: 118-142

- Dembele, M. & Miaro-II, B. (2003) *Pedagogical renewal and Teacher development in Sub-Saharan Africa: A thematic Analysis*. ADEA
[<www.adeanet.org/biennial2003/papers/4A_synthesemartial_e_final.pdf>](http://www.adeanet.org/biennial2003/papers/4A_synthesemartial_e_final.pdf) Accessed August 2004
- Dembele, M. (2003) Breaking the mold: teacher development for pedagogical renewal. Ch 7 of *Discussion paper: The Challenge of Learning: Improving the quality of Basic Education in Sub-Saharan Africa*. ADEA
- Department of Education (South Africa) Revised National Curriculum Statement Grades R-9 (Schools): Mathematics (2002) Pretoria
[<www.thutong.org.za/resources/ncsdocs/GET/Statements/GET_RNCS_Mathematics_2002.pdf>](http://www.thutong.org.za/resources/ncsdocs/GET/Statements/GET_RNCS_Mathematics_2002.pdf) Accessed Jan 2008
- DFID (2001a) *IMFUNDO: partnership for IT in education Inception report*, Department for International Development. London
- Diallo, A. M., Camara, K., Schwille, J., Dembele, M. & Bah, T. H. (2001) Mobilizing Guinean educators to generalize a program for improving the quality of elementary education. ADEA conference paper. [<www.adeanet.org/biennial/papers/en_arusha_diallo.pdf>](http://www.adeanet.org/biennial/papers/en_arusha_diallo.pdf) Accessed August 2004
- Dienes, Z. (1969) *Mathematics in the primary school*. London, Macmillan
- DoE (Department of Education, South Africa) (1997) Mathematics Literacy, Mathematics and the Mathematical Sciences. Foundation Phase Policy Document, Pretoria
- Draisma, J. (1998) *On verbal addition and subtraction in Mozambican bantu languages*, in Olivier, A. and Newstead, K. Proceedings of the 22nd Conference of the International Group for the Psychology of Mathematics Education, University of Stellenbosch, South Africa. Vol 2, p. 272–297
- Draisma, J. (2000) *Gesture and oral computation as resources in the early learning of mathematics*. Research report presented at PME 24 (Hiroshima)
- Ernest, P. (2000) Why teach mathematics? University of Exeter, UK
[<www.people.ex.ac.uk/PErnest/why.htm>](http://www.people.ex.ac.uk/PErnest/why.htm)
- Evans, J. (1999) Building bridges: Reflections on the problem of transfer of learning in mathematics. Educational Studies in Mathematics, Volume 39, Numbers 1-3 / June, 1999.
[<www.springerlink.com/content/wj4480w188wk4770/>](http://www.springerlink.com/content/wj4480w188wk4770/) Accessed Jan 2008
- Examinations Council of Zambia (2003) Sub-regional conference on Assessment: Learner Assessment for Improved Educational Quality: An Exchange of Current Ideas and Best Practice
[<www.equip123.net/archive/e1-001.pdf>](http://www.equip123.net/archive/e1-001.pdf) Accessed April 2004
- Facundo, B. (undated) The lessons of Guinea-Bissau.
[<www.uow.edu.au/arts/sts/bmartin/dissent/documents/Facundo/section7.html>](http://www.uow.edu.au/arts/sts/bmartin/dissent/documents/Facundo/section7.html) Accessed Jan 2008
- FEMSA Malawi (2001) (Female Education in Mathematics and Science in Africa, Malawi chapter) private correspondence
- Fennell & Landis (1994) Number and Operation Sense, in Thornton, C. A. and Bley, N. S. (1994) *Windows of Opportunity: Mathematics for Students with Special Needs* Reston: National Council of Teachers of Mathematics
- Finlay, E. & Lowe, I. (1993) *Exploring Real Data*. Melbourne, Curriculum Corporation
- Flavel, S. & Cathcart, J. (1999) Maths? No Fear! in Scott, N. et al *Mathematics across the ages*. Melbourne, MAV
- Foroni, N. & Newman, K. (1998) *Numeracy in Reflect*, in Education Action 9, and [<www.reflect-action.org/resources/publications/PLANotes/engplanotes/nicokate.htm>](http://www.reflect-action.org/resources/publications/PLANotes/engplanotes/nicokate.htm) Accessed Jan 2008
- Frankenstein, M. (1995) Equity in mathematics education: Class in the world outside the class, in Secada, W., Fennema, E & Adajian, L. B. (eds) *New directions for equity in mathematics education*. NY, Cambridge University Press
- Gaynor, C. (1997) *The supply, condition and professional development of women teachers*. Paris: UNESCO

- Geertz, C. (1973) *The interpretation of culture*. New York, NY: Basic Books.
- Gerdes, P. (1991) On mathematics elements in the Tchokwe "Sona" tradition.
<www.enc.org/topics/equity/articles/document/shtm> Accessed March 2004
- Gerdes, P. (1993) Survey of current work in Ethnomathematics. Paper presented at AAAS meeting, 1993. Reprinted in Powell, A. and Frankenstein, M. (Eds.) (1997) *Ethnomathematics: challenging the Eurocentrism of mathematics education*. NY Suny Press
- Gerdes, P. (1997) On culture, geometrical thinking and mathematics education, in Powell, A. and Frankenstein, M. (Eds.) (1997) *Ethnomathematics: challenging the Eurocentrism of mathematics education*. NY Suny Press
- Gerdes, P. (1998) The study of African Sona Geometry as an example of ethnomathematical research.
www.uni-muenster.de/EthnologieHeute/eh2/gerdes.htm Accessed March 2004
- Gerdes, P. (1999) *Ethnomathematics as a new research field, illustrated by studies of mathematical ideas in African history*.
<[iascud.univille.edu.co/libro/libro_pdf/Ethnomathematics as a new research.pdf](http://iascud.univille.edu.co/libro/libro_pdf/Ethnomathematics%20as%20a%20new%20research.pdf)> Accessed Jan 2008
- Goldstein, C., Mnisi, P. & Rodwell, P. (1999) Changing teaching in a changing society, in Jaworsky, B., Wood, T. & Dawson, S. (Eds.) *Mathematics Teacher Education: Critical International Perspectives*. London: Falmer Press
- Gordon, D., (2000) *The Global Security Implications of Infectious Disease and HIV/AIDS*. The Humpty Dumpty Institute. <www.humptydumpty.net/PDFS/publications/summaries/sum_mixed_3.pdf>, Accessed Feb 2004
- Gutstein, R. (2003) Home buying while brown or black: teaching mathematics for social justice.
<www.rethinkingschools.org/archive/18_01/brow181.shtml> Accessed April 2004
- Harris, A. & Dzinyela, J. M. (1997) Fostering English Language Learning in Ghana. IEQ/Ghana. AIR. <www.ieq.org/publications.html#Pubs>. Accessed Mar 2004
- Harris, M. (1987 and 1997) An example of traditional women's work as a mathematics resource, in *For the learning of mathematics* 7(3): 26-28, and reprinted in Powell, A. and Frankenstein, M. (Eds.) (1997) *Ethnomathematics: challenging the Eurocentrism of mathematics education*. NY Suny Press
- Harris, S. (1984) Aboriginal learning styles and formal schooling. in *The Aboriginal child at school*, 12(3), 3 - 23
- Harris, S. (1990) *Two way Aboriginal schooling*. Canberra: Aboriginal Studies Press.
- Holmarsdottir, H.R. (2003) Literacy in two languages? Implementing language policy in a post-colonial context. <www.netreed.uio.no/articles/Papers_final/Holmarsdottir.pdf> Accessed Jan 2008
- Horne, M. (1998) Linking parents and school mathematics. In N. Ellerton (Ed.), *Issues in mathematics education: A contemporary perspective* (pp. 115-135). Perth: Mathematics, Science and Technology Education Centre, Edith Cowan University
- Horsthemke, K. (2004) *Ethnomys: A critical examination of the epistemological and educational challenges of ethnomathematics*. School of Education Staff seminar, 18th March 2004. Johannesburg, Wits University
- Howard, L. (2003) *Is a river living or non-living? Is the earth living or non-living? What we know is how we live*. Presentation at KEA-SACS conference.
<web.uct.ac.za/depts/educate/kentonsachs/Abstracts.doc> Accessed April 2004
- Hughes, P. & More, A (1997) *Aboriginal Ways of Learning and Learning Styles*. Paper presented at the Annual Conference of the Australian Association for Research in Education Brisbane, December 4, 1997. International Council of Scientific Unions (ICSU, 1998) reprinted in *Studies in Science Education*, 31, p. 73-91.
- Hyde, K.A.L. (1999) *HIV/AIDS and FAW: challenges and opportunities*. Nairobi: FAW.
Reviewed in <www.bridge.ids.ac.uk/reports/bb10edw2.doc>

- IEQ/Uganda (1999a) Participation as a method to Improve Education Quality: The Principles. American Institute for Research. <www.ieq.org/publications.html#Pubs> Accessed Jan 2008
- IEQ/Uganda (1999b) Perspectives of quality learning: From research to action. Improving education quality Uganda case study. Final report of IEQII <www.ieq.org/publications.html#Pubs> Accessed Jan 2008
- Jama J.M. (1999) The role of ethnomathematics in mathematics education: cases from the Horn of Africa. A presentation to the First International Conference on Ethnomathematics, University of Granada, Spain, Sep 2-5, 1998, <www.fiz-karlsruhe.de/fiz/publications/zdm/zdm993a2.pdf> Accessed April 2004
- Jegede, O.J. & Aitkenhead, G. (1999) *Transcending cultural borders: implications for science teaching*. Paper presented as pre-conference workshop of annual meeting of the National Association for Research in Science Teaching, Boston. MA
- Johnson, D., Hayter, J. & Broadfoot, P. (2000) *The quality of learning and teaching in developing countries: Assessing literacy and numeracy in Malawi and Sri Lanka*. Serial No. 41. DFID <www.dfid.gov.uk/pubs/files/learn-teach-literacy-numeracy-paper41.pdf> Accessed Jan 2008
- Johnson, V. & Nurick, R. (2000) *Participatory Visual methods with Children*. Education Action 12. <reflect-action.org/resources/edacthome.html> Accessed Mar 2004
- Jones, K., Kershaw L. & Sparrow, L (1995) *Aboriginal children learning mathematics*. Perth, WA, MASTEC (Edith Cowan University)
- Jordaan, V.A. (1999) *Multi-grade Rural Schools*, Western Cape Education Department, Multigrade rural schools intervention. Multigrade Framework Document <curriculum.wcape.school.za/resource_files/47140402_MGframeworkdocu150702.doc> Accessed Mar 2004
- Joyce, B. & Showers, B. (1995) *Student achievement through staff development*. New York: Longman
- Kadzamira, E. & Rose, P. (2003) Can free primary education meet the needs of the poor?: evidence from Malawi. *International Journal of Educational Development* Volume 23, Issue 5, September 2003, Pages 501-516
- Kajula, P.W. (undated, late 90s) Reaching children out of school in Uganda: A case study of Complementary Opportunity for Primary Education Program (COPE). <www.adeanet.org/wgnfe/publications/nfe-systems/kajula.pdf> Accessed Jan 2008
- Kamangira, Y.T. (2005a) *Continuous Assessment: an intervention for quality primary education in Malawi*. A paper presented at the Education Conference at Malawi Institute of Management – Lilongwe, from 29th March to 1st April, 2005
- Kamangira, Y.T. (2005b) *Continuous Assessment: an intervention and innovation for quality primary education in Malawi* A paper presented at the IPITER workshop held at Malawi Institute of Education, Domasi, Zomba, on 23rd May, 2005
- Kamingira, Y., Zembini, G, Heyman, C., Winicki, F., Jessee, C., Santilla-Crisafulli, G. & Schubert, J. (2003) *Exploring factors that influence teaching and learning: Collection of selected studies using the IEQ/Malawi longitudinal data 1999-2002 Volume 2*, Chapter 4. IEQ/Malawi <www.ieq.org/publications.html#Pubs> Accessed Jan 2008
- Kane, E., Bruce, L., & De Brun, M.O. (1998) 'Designing the future together: PRA and education policy in The Gambia', in Holland, J. & Blackburn, J. (Eds.) (1998) *Whose voice? Participatory Research and Policy Change*. London: Intermediate Technology Publications.
- Kassam, Y. (1995) 'Julius Nyerere' in Z. Morsy (ed.) *Thinkers on Education*, Paris: UNESCO Publishing.
- Kesamang M.E.E. & Taiwo A.A. (2002) The correlates of the socio-cultural background of Botswana junior secondary school students with their attitudes towards and achievements in science. *International Journal of Science Education* 24(9), 191 - 940

- Kinyanjui, P.E. (1998) Distance education and open learning in Africa: What works or Does not work. Presentation at EDI/World Bank workshop of Teacher Education through Distance Learning. <<http://www.col.org/colweb/site/pid/3689>> Accessed Jan 2008
- Kishindo, E.C. (2005) Personal communication
- Knijnik, G. (1993) An ethnomathematical approach in mathematical education: a matter of political power. *For the Learning of Mathematics*, 13(2) 23-25. Reprinted in Powell, A. and Frankenstein, M. (Eds.) (1997) *Ethnomathematics: challenging the Eurocentrism of mathematics education*. NY Suny Press
- Knijnik, G. (1998) *Ethnomathematics and Political struggles*. <www.emis.de/journals/ZDM/zdm986a4.pdf> Accessed April 2004
- Knijnik, G. (1999) Ethnomathematics and the Brazilian Landless People Education. A presentation to the First International Conference on Ethnomathematics, University of Granada, Spain, 1998; <www.emis.de/journals/ZDM/zdm993a3.pdf> Accessed Jan 2008
- Kolb, D.A. (1984) *Experiential learning: Experience as the source of learning and development*. New Jersey: Prentice-Hall
- Kraft, R. (1995) *A Tale of Two Ghanas: The View from the Classroom*, USAID, Accra
- Kuku, A. (1995). Mathematics education in Africa in relation to other countries. In Hunting, R. Fitzsimons, G. Clarkson, P. & Bishop A. (Eds.), *Regional collaboration in mathematics education* (pp. 403-423). Melbourne: Monash University.
- Lanternari, V. (1963) *The religions of the Oppressed*. New York: Alfred A. Knopf
- Lave, J. (1988) *Cognition in Practice: Mind, mathematics and culture in everyday life*, Cambridge University Press.
- Leach, F. & Machakanja, P. with Mandoga, J. (2000) 'Preliminary investigation of the abuse of girls in Zimbabwean junior secondary schools', *DFID Education Research Series* Serial No 39, London: DFID <www.dfid.gov.uk/pubs/files/prelinvestgirlszimschoolsedpaper39.pdf> Accessed Jan 2008
- Lewis, C. (2002) *Lesson study: a handbook of teacher-led Instructional change*. Philadelphia: Research for better schools, Inc.
- Lowe, I. (1975) *Applied Maths Form 3, 4 and 5*. Western Samoa Education Department
- Lowe, I. (1981) *Some aspects of the teacher's role in development— a comparative study in the two Samoas*. M Ed dissertation, Melbourne, La Trobe University.
- Lowe, I. (1988) *Mathematics at Work: Modelling your world, Volume 1*. Canberra, Australian Academy of Science. And on CD from <www.mav.vic.edu.au/shop>
- Lowe, I. (1991) *Mathematics at Work: Modelling your world, Volume 2*. Canberra, Australian Academy of Science
- Lowe, I. (2001) *Mathematics at Work: Modelling your world* Adelaide, Australian Association of Mathematics Teachers (Volume 1, revised, on CD)
- Mabuchi, S. (1997) *Oral and Written Numeracy in Africa: An ethnomathematical approach to adult numeracy education*. M Ed dissertation in Adult Education and Literacy for Rural Social and Community Development. University of Manchester.
- Maimbolwa-Sinyangwe, L.M. & Chilangwa, B.Y. (1995) *Learning from inside the classroom: a research report*. UNICEF and Ministry of Education Zambia
- Malawi Gender Policy 2000 - 2005. <www.sdn.org.mw/~ettah/gender/> Accessed January 2008
- Malawi SNDP (2000) *Secondary Education Basic Statistics*. <chambo.sdn.org.mw/~edsaidi/secondary/index.htm> Accessed Jan 2008
- Malawi, National Economic Council (2000) *Profile of Poverty in Malawi, 1998: Poverty Analysis of the Malawi Integrated Household Survey 1997-98*, Lilongwe: NEC, Nov. <www.ifpri.org/themes/mp18/malawipms.htm> Accessed Jan 2008

- Mazonde, I. (1994) Culture and Education in the development of Africa.
<unpan1.un.org/intradoc/groups/public/documents/IDEP/UNPAN003347.pdf> Accessed Jan 2008
- Mchazime, H. (2001) Policy and literacy development in Malawi. Malawi Institute of Education
- McIntosh, A. (1999) A Typical Australian Year 8 Mathematics Lesson? in Hollingsworth, H., Lokan, J. & MacRae, B. (Eds) *Teaching mathematics in Australia: Results from the TIMSS 1999 video study*. Melbourne: ACER
- Meaney, T. (2001) *Mathematics Curriculum Development in Indigenous Communities*
<math.unipa.it/~grim/EMeaney9> Accessed Jan 2008
- Mecoamere, V. (1999) The Africanisation of Knowledge.
<www.afrofuturism.net/text/Manifestos/Sipho.html> Accessed March 2004
- Meyer, S. (2002) *Education & Training: Models for Best Practice. From deficit to Achievement: an innovation in multi-grade teaching*. <www.deltafoundation.org.za/conference/power/ Susan Meyer - Multigrade.pdf> Accessed Mar 2004
- Miller, V. W. & Affolter, F. W. (2002) *Helping children outgrow War*. Human Resources and Democracy Division, Office of Sustainable Development, Bureau for Africa. IEQ/USAID.
<www.ieq.org/pdf/HelpChildrOutgWar.pdf> Accessed March 2004
- Miske, S. (2003) *Proud Pioneers: Malawian teachers implement Continuous Assessment in primary school classrooms*. IEQ/AIR <www.ieq.org/publications.html#Pubs> Accessed Jan 2008
- Miske, S., Schmidt, S. & Santhe, E. (2003a) *The relationship of ranking pupils to teaching and learning*. IEQ/AIR. <www.ieq.org/publications.html#Pubs> Accessed Jan 2008
- Miske, S., Schmidt, S., Santhe, E. (2003a) *The relationship of ranking pupils to teaching and learning*. IEQ/IAR <www.ieq.org/publications.html#Pubs> Accessed Jan 2008
- MoEST (undated) *The role of education in development*. <www.malawi.gov.mw/educ/educ.htm> Accessed Jan 2004
- Mwakapenda, W. (2003) *Concept mapping and context in mathematics education*.
<math.unipa.it/~grim/21_project/21_brno03_Mwakapenda.pdf> Accessed Jan 2008
- National Economic Council (Poverty Monitoring System) (2000) *Profile of poverty in Malawi, 1998. Poverty analysis of the Malawi Integrated Household Survey, 1997-98* Government of Malawi
<www.ifpri.org/themes/mp18/malawipms.htm> Accessed Jan 2008
- National Economic Council, National Statistical Office, The International Food Policy Research Institute, (2001) *The determinants of Poverty in Malawi, 1998: An analysis of the Malawi Integrated Household Survey, 1997-98* Government of Malawi. <www.ifpri.org/themes/mp18/malawipms.htm> Accessed Jan 2008
- Neke, S.M. & Blommaert, J. (undated) Consolidating the colonial language policy: English in education in Tanzania. <africana.rug.ac.be/texts/publications/stephen/Ss14.rtf> Accessed Mar 2004
- Newman, K. (1998a) *Numeracy and Reflect* in Education action 10, and <www.reflect-action.org/enghome.html> Accessed April 2004
- Newman, K. (1998b) Economic Literacy and Grassroots Governance: Reconceiving Numeracy in Adult Learning (New Initiatives in Reflect) <http://217.206.205.24/Initiatives/ecoliteracy.htm> Accessed April 2004
- Nichol, R. & Robinson, J. (1998) Building bridges between Aboriginal and Western mathematics: creating an effective mathematics learning environment.
<www.latrobe.edu.au/www/graded/JRed2.html> Accessed July 2004
- Nichol, R. & Robinson, J. (2000) Pedagogical challenges in making mathematics relevant for Indigenous Australians. *Int. J. Math. Educ. Sci Technol.* 2000, 31(4): 495-504.
- Nkurunziza, J.D. (2002) Economic determinants of violent conflict in Burundi.
www.dse.de/ef/business/nkurunzi.htm> Accessed Feb 2004

- Nyerere, J. (1968) *Freedom and Socialism. A Selection from Writings & Speeches, 1965-1967*, Dar es Salaam: Oxford University Press.
- OECD (2001) *Knowledge and skills for life: first results from PISA 2000*. Paris, OECD
- Ogawa, M (1999) Science as the Culture of Scientists: How to cope with Scientism? <www.ouhk.edu.hk/cridal/misc/ogawa.htm> Accessed Jan 2008
- Ole Kambaine, P. (2002) *The role of teachers in the education for all process: the Tanzanian experience. Paper presented at the 2002 ABCDE conference. World Bank Group.* wbln0018.worldbank.org/EURVP/web.nsf/Pages/ABCDE+2002-Papers. Accessed Jan 2008
- Owen, J., Johnson, N., Clarke, D., Lovitt, C. & Morony, W. (1988) MCTP: Guidelines for consultants and curriculum leaders. Melbourne: Curriculum Corporation
- Pomeroy, D. (1994) Science education and cultural diversity: Mapping the field. *Studies in Science Education*, 24: 49–73
- Prouty, D. & Sey, H. (1997) Project classroom observations and Participatory Learning for Action Activities: A view to the experience of girls. USAID, SARA project. <www.dec.org/pdf_docs/PNACE093.pdf> Accessed August 2004
- Psacharopoloulos, G. (1990) Why educational policies can fail: an overview of selected African experiences. World Bank Discussion papers. Accessed Jan 2000 <www.eric.ed.gov/ERICDocs/data/ericdocs2sql/content_storage_01/0000019b/80/22/b8/41.pdf>
- Ramirez, V. (undated) *Review of Freire, Paulo (1978) Pedagogy in Process: The letters to Guinea Bissau.* <fcis.oise.utoronto.ca/~daniel_schugurensky/freire/vr.html> Accessed Feb 2004.
- REFLECT – a CIRAC education project. <www.reflect-action.org> Accessed April 2004
- Riddell, A. (2004) *The introduction of free primary education in sub-Saharan Africa*. Background paper prepared for the Education for All Global Monitoring Report 2003/4 Gender and Education for All: The Leap to Equality. <unesdoc.unesco.org/images/0014/001469/146914e.pdf> Accessed Jan 2008
- Riley, K., Craig, H., Poston, M., Saunders, L. & Flynn, A. (2000) *Effective Schooling in Rural Africa. Report 1*. Effective Schools and Teachers Thematic Group, Human Development Network, Washington DC: World Bank
- Rogan, J.M. & Macdonald, M.A. (1985) The in-service teacher education component of an innovation: A case study in an African setting. *Journal of Curriculum Studies*, 17(1): 63-85
- Sacred Heart School Development Project (1997) Whole school development. Appendix C of President's Education Initiative Johannesburg: JET <www.jet.org.za/page.php?p_id=120> Accessed August 2004
- Schliemann, A. (1995) *Some concerns about bringing everyday mathematics to mathematics education.* in Meira, L. and Carraher, D. (Eds.) Proceedings of the 19th International Conference for the Psychology of Mathematics Education (PME-19). Recife, Brasil, pp. 45-60, vol 1
- Schön, D. (1983) *The reflective practitioner: How professionals think in action*. London: Temple Smith
- Schools Council (1971) *Mathematics for the majority* (series of books) London, Chatto & Windus
- Schubert, J. & Prouty-Harris, D. (2003) Accelerating paths to quality: a multi-faceted reality. IEQ, AIR. <www.ieq.org/publications.html#Pubs> Accessed August 2004
- Schubert, J. (2003) *Continuous assessment for Standard 3: A Training Manual for Educators in Malawi*. IEQ/AIR <www.ieq.org/publications.html#Pubs> Accessed Jan 2008
- Schumpeter, J. A. (1987) *Capitalism, Socialism and Democracy*. London: Unwin Paperbacks (First edition 1943)
- Sedibe, K., Reeves, C. & Vinjevold, P. (1997) *President's Education Initiative. Appendix C. Large class teaching, Multilingual teaching, Multigrade teaching, Whole school development.* Johannesburg. Joint Education Trust. <www.jet.org.za/page.php?p_id=120> Accessed August 2004

- Sey, H. (1997) *Peeking through the windows: classroom observations and participatory learning for action activities (COPLAA)*, Arlington, VA: IIR
- Shulman, L. (1986) Those who understand: Knowledge growth in teaching. *Educational Researcher*, 15(2), 4-14.
- Shulman, L. (1987) Knowledge and teaching: Foundations of the new reform. *Harvard Educational Review*, 57(1), 1-22.
- Shulman, L. (1992) Ways of seeing, ways of knowing, ways of teaching, ways of learning about teaching. *Journal of Curriculum Studies*, 28, 393-395.
- Skovsmose, O. (1994) *Toward a Philosophy of Critical Mathematics Education*. Dordrecht, Kluwer
- Slammert, L. (1991) Mathematics and Politics. In Julie C. (Ed) *People's Mathematics: Early Ideas and Debates*. (University of the Western Cape, Cape Town).
- Smith, A. & Vaux, T. (2003) Education, Conflict and International Development. A report for DFID. <www.dfid.gov.uk/Pubs/files/edconflictdev.pdf> Accessed Feb 2004
- Smith, M. (1998) Julius Nyerere, lifelong learning and informal education, <www.infed.org/thinkers/et-nye.htm> Accessed Jan 2008
- Smith, M. K. (2001a) David A. Kolb on experiential learning, the encyclopedia of informal education, <www.infed.org/biblio/b-learn.htm> Accessed Jan 2008
- Smith, M. K. (2001b) Donald Schön: learning, reflection and change, the encyclopedia of informal education, <www.infed.org/thinkers/et-schon.htm> Accessed July 2004
- Stephens, D. (1998) *Girls and basic education in Ghana: a cultural enquiry*, DFID, University of Sussex
- Stephens, D. (2000) Girls and basic education in Ghana: a cultural enquiry, *International Journal of Educational Development*, 20: 29-47 <linkinghub.elsevier.com/retrieve/pii/S0738059399000449> Accessed Jan 2008
- Sweeny, B (2003) How mentoring is the critical bridge for successful development <198.66.196.166/Bridge.html> Accessed Jan 2008
- Taylor, P.C. & Cobern, W.W. (1998) Towards a critical science education. In Cobern, W.W. (Ed.) *Cultural perspectives on science education*. Dordrecht, The Netherlands: Kluwer Academic Press. pp. 203-207
- The Sankofa Project (1999) *The Black Holocaust: From Maafa to Colonization KAMMAASI / Sankofa Project Guide*, 1999 <www.geocities.com/CollegePark/Classroom/9912/blackholocaust.html> Accessed Feb 2004
- Themu, P. (2005) *Lessons learnt from MIITEP programme*. Unpublished paper prepared for the primary teacher education curriculum writers workshop, May 2005, Domasi, Malawi Institute of Education
- Therkildsen, O. (1998) Local Government and Households in Primary Education in Tanzania: Some lessons for Reform, CDR Working Paper 98.6, June 1998, Danish Institute for International Studies. <www.cdr.dk/working_papers/98-6-abs.htm> Accessed Feb, 2004
- Thomas, N. (1996) Understanding the number system. In J. Mulligan, & M. Mitchelmore (Eds), *Children's number learning: A research monograph of MERGA/AAMT* (pp. 89-106). Adelaide: AAMT.
- Thompson, E.J.D. (2001) *Successful Experiences in Non-Formal Education and Alternative Approaches to Basic Education in Africa. Discussion Paper presented at 2001 Biennial Conference of The Association for the Development of Education in Africa (ADEA)*. <www.adeanet.org/wgnfe/publications/biennial01/Thompson Paper- final.pdf> Accessed Jan 2008
- Turner, C. K., & Broughton, J. Collaborative INSET Using Supported Distance Learning *British Journal of In-service Education*, Vol. 20, No. 1, 1994

- UNDP (2003) *Human Development Report 2003: Millennium Development Goals: A compact among nations to end human poverty* <hdr.undp.org/en/reports/global/hdr2003/> Accessed Jan 2008
- UNESCO/UNICEF (1993) The education of girls: The Ouagadougou Declaration and Framework for Action Paper from the Pan African Conference.
<www.unesco.org/education/nfsunesco/pdf/OUAGAD_E.PDF> Accessed Jan 2008
- UNHABITAT (2003) The challenge of slums: Global report on human settlements 2003
<www.unhabitat.org/pmss/getPage.asp?page=downloads> Accessed Jan 2008
- UNICEF Statistics: Malawi <www.unicef.org/infobycountry/malawi_statistics.html> Accessed February 2007
- United Nations (1997) *Country profiles on the situation of youth: Malawi National Youth policy*.
<esa.un.org/socdev/nyin/country4.asp?countrycode=mw> Accessed 2004
- USAID (2003) Creating effective partnerships: Interactions between governments and NGOs in Basic Education in Africa. USAID, SARA project, AED <www.dec.org/pdf_docs/PNACS082/> Accessed August 2004
- USAID (undated) Education to combat abusive child labor. Creative Associates International, Inc.
<www.beps.net/child_labor/child_labor_index.htm> Accessed Jan 2008
- USMES (1973 and later) *Unified Science and Mathematics for Elementary Schools, project books*. Boston, Educational Development Center
- Vithal, R. & Skovsmose, O. (1997) *The end of innocence: a critique of 'Ethnomathematics'*. Educational Studies in Mathematics 34: 131-157
- Walker, M. (1993) Developing the theory and practice of action research: a South African case. *Educational Action Research*, 1(1): 95-109
- Walkerdine, V. (1999) Redefining the Subject in Situated Cognition Theory. In D. Kirshner, D. and Whitson, J.A. (Eds.). *Situated Cognition: Social, Semiotic, and Psychological Perspectives*. Mahwah, New Jersey: Erlbaum. p. 57-70.
- Wamahiu, S.P. (1996) The pedagogy of difference: an African perspective, in Murphy, P.F. & Gipps, CV. (eds) *Equity in the classroom: Towards effective pedagogy for girls and boys*. London: Falmer
- Wang-Iverson, P. (2002) Why Lesson Study? Paper presented at the RBS Lesson Study conference, www.rbs.org/lesson_study/conference/2002/papers/wang.shtml Accessed Dec 2003
- World Bank (1998) *Education in Sub-Saharan Africa: Policies for Adjustment, Revitalisation, and Expansion*. Washington DC: World Bank
- World Bank (2002) *The Elimination of the enrollment fee for Primary Education in Tanzania*, <info.worldbank.org/etools/docs/library/96235/casestudy_pdi_tanzaniaeducation.pdf> Accessed Jan 2008
- World Economic Forum (2003) *Water Management. Extraordinary Annual Meeting 2003*
<www.weforum.org/en/knowledge/KN_SESS_SUMM_9523?url=/en/knowledge/KN_SESS_SUMM_9523> Accessed Jan 2008
- Yoshida, M. (1999) Lesson Study (Juguokenkyu) in elementary school mathematics in Japan: a case study. Paper presented at the AERA 1999 Annual Meeting.
<www.globaledresources.com/about/myoshida.html> Accessed Jan 2008
- Yoshida, M., & Fernandez, C. (2004) *Lesson Study: A Japanese Approach to Improving Mathematics Teaching and Learning*. Mahwah, NJ: Lawrence Erlbaum Associates.
- Zavlavsky, C. (1973) *Africa Counts: Numbers and patterns in African culture* Prindle, Weber and Schmidt, Boston
- Zevenbergen, R. (2000) Language implications for numeracy: A study of language use of disadvantaged students. In *Improving numeracy learning. ACER conference proceedings*. Melbourne, ACER. <www.acer.edu.au/workshops/documents/conference_proceedings2000.pdf>