REFERENCES

- Abernathy, D. (1998). *Thinking Outside the Evaluation Box*. [Online]. Available: http://www.astd.org/CMS/templates/te,plate_1.html?articleid=21260
- Babbie, E. (1992). *The practice of social research*. California:Wadsworth Publishig Company. Pp. 416-434 (The Elaboration Model).
- Balasubramanyam, V. (S.A.). Workshop on computers on medical education [Online]. Available: http://www.imaksb.com/cme.htm
- Begg, D.A., Brisbourne, M., Chin, S. and Diduck, M. (S.A.). *HistoQuest: An Interactive Computer Program for Teaching Human Histology*. [Online]. Available: http://slice.gsm.com/2000/prework/webprogram_files/Begg_histoquest.htm
- Biggs, J. (1989). *Approaches to the enhancement of tertiary teaching*. Higher education Research and development, 8(1), 7-25.
- Blanc, R.A. and Martin, D. C. (1994). Supplemental instruction: Increasing student performance and persistence in difficult courses. Academic Medicine: Journal of the Association of American Medical Colleges, 69 (6), 452-454.
- Boettcher, J.V. (1996). *Distance Learning:Looking into the Crystal Ball*, Corporation for Research and Educational Networking.
- Boyle, M.A. and Crosby, R. (1997). *Academic program evaluation: Lessons from business and industry*. Journal of industrial teacher education, 34(3), 81-85.
- Brennan, K. (2000). *Computer based learning beats lectures*. Student BMJ, Vol. 8, p265, 1/2p.
- Cairncross, S. and Manion, M. (2001). *Interactive multimedia and learning: realizing the benefits*. Innov Educ Teach Internatl. 38(2):156-64.

University of Pretoria

Cates, W. (1992). Fifteen Principles for Designing More Effective Instructional

Hypermedia/Multimedia Products. Educational Technology, 32, 12, 5-10.

- Clark, D. (copyright 1995, revised 1996 and 1997). *Instructional System Development Evaluation Phase* Chapter VI. [Online]. Available: http://www.nwlink.com/~donclark/hrd/sat6.html
- Clark, D. (1999). Learning Domains or Bloom's Taxonomy. [Online]. Available: http://www.nwlink.com/~donclark/hrd/bloom.html
- Clark, R. and Craig, T (1992). Research And Theory On Multi-Media Learning Effects. In Giardina, M (Ed) Interactive Learning Environments; human factors and technical consideration on design issues. Berlin: Springer-Verlag
- Clark, R.E. (1992). *Media use in education*. In M. C. Alkin (Ed.), *Encyclopedia of educational research* (pp. 805-814). New York: Macmillan.
- Cooley, W.W. and Lohnes, P. R. (1976). *Evaluation research in education*. New York: Irvington Publishers.
- Cronbach, L.J. and Associates. (1980). *Toward reform of program evaluation: Aims, methods, and institutional arrangements*. San Francisco: Jossey-Bass.
- Cronje, J.C. (1995). *Multimedia Shaping the future of education*. Paper presented at the 1995 Multimedia conference of AIC Conferences, Gallagher Estate, Midrand, South Africa.
- Cronje, J.C. (1996). *How to make Interactive television Interactive*. Paper presented at the forum on Telecommunications for tertiary Education, CSIR, Pretoria.
- Cronjé, J.C. and Clarke, P.A. (S.A.). *Teaching "Teaching on the internet" on the internet*. [Online]. Available: http://hagar.up.ac.za/catts/abchome.html

University of Pretoria

- Cronjé, J. (1997). *Interactive Internet: Using the Internet to facilitate co-operative distance learning*. South African Journal of Higher Education 11(2): 149-156. [Online]. Available: http://hagar.up.ac.za/catts/abchome.html.
- Davies, M.L. and Crowter, D.E.A. (1996). *The benefits of using Multimedia in higher education: Myths and realities*, CTISS Publications.
- Davis, M. (2002). Public Lecture. *The future of medical education* (7 August 2002: Pretoria)
- Dørup, J., Hansen, M.S. and Geneser, F. (2003). *User-Centered Design of Medical Learning Software*. [Online] Available: http://www.intermed.dk/jd.htm
- Eitel, F., Kuprion, J., Arends, W., Payer, T., Bräth, A., Hortig, E., Tesche, A. and Mutschler, W. (S.A.). Why we had to get rid of Computer-based Tutorials as part of the syllabus in our Learning Center. [Online]. Available: http://www.aum.iawf.unibe.ch/did/zsfhd.htm
- Eizenberg, N., Kennedy. D. and Kennedy, G. (1999) *Perceptions of factors important for learning with multimedia*. HERDSA Annual International Conference, Melbourne, 12-15 July.
- Fernàndez, J., Mateo, M.A. and Mu-iz, J. (1998). *Is there a relationship between class size and student ratings of teaching quality?* Education and Physical measurement, 58(4), pp.596-604.
- Fiefer, R. and Tazbaz, D. (1997). Denise Interface design principles for interactive multimedia. Telematics and Informatics . Vol. 14. No 1, pp. 51-65,
- Flagg, B.N. (1990). Formative evaluation for educational technologies. Hillsdale, NJ: Lawrence Erlbaum.
- Foks, J. (1995). Detailing global trends and development in technology based training and evaluating the implications for South African Training and Education

University of Pretoria

- Practitioners. Proceedings of Technology Assisted Training Conference 5-6 July. Johannesburg: International Executive Communications.
- Fontana, L., Dede, C., White, C. and Cates, W. (1993). Multimedia: A Gateway to Higher-Order Thinking Skills. In proceedings of Selected Research and Development Presentations at the Convention of the Association for Educational Communications and Technology, New Orleans.
- Galbraith, J.K. (2002). eLearning Magazine "Change Comes Hard" [Online]. Available: http://www.edb.utexas.edu/mmresearch/Learners97/Rutledge/html/constructivism.ht ml.
- Greenwald, A.G. and Gillmore, G.M. (1997). Grading leniency is a removable contaminant of student ratings. American Psycologist, 53,1997, 1209 –1217, .
- Haddon, K., Smith, C., Brattan, D. and Smith, T. (1996). Can learning via multimedia benefit weaker students? [Online]. Available: http://www.ilt.ac.uk/public/cti/ActiveLearning/issue3/smith/smith1.html
- Harris, T., Leaven, T., Heidger, P., Kreiter, C., Duncan, J. and Dick, D. (2001) Comparison of a Virtual Microscope Laboratory to a Regular Microscope Laboratory for Teaching Histology. THE ANATOMICAL RECORD (NEW ANAT.) 265:10-14,
- Hazari, S. (S.A.). Evaluation and Selection of Web Course Management Tools. Robert H. Smith School of business, University of Maryland, College park. [Online]. Available: http://www.sunilhazari.com/education/webct
- Heidger, P.M.Jr., Dee, F., Consoer, D., Leaven, T., Duncan, J. and Kreiter, C. (2002). Integrated approach to teaching and testing in histology with real and virtual imaging. Anat Rec. 2002 Apr 15;269(2):107-12.
- Huitt, W. and Hummel, J. (2003). Cognitive Development. [Online]. Available: http://chiron.valdosta.edu/whuitt/col/cogsys/piaget.html

- Janda, K. (1992). *Multimedia in Political Science: sobering lessons from a teaching experiment.* Journal of Educational Multimedia and Hypermedia. **1**, 341-354.
- Johnstone, A.H. and Percival, F. (1976). Educ. Chem. 13,49.
- Jonassen, D. H., Wilson, B. G., Wang, S. and Grabinger, R. S. (1993). *Constructivistic uses of expert systems to support learning*. Journal of Computer Based Instruction 20 (3), 86-94.
- Jonassen, D.H. (1994). *Constructivism* [Online]. Available: http://www.lite.fae.unicamp.br/repeduc/educdist/tsld006.htm
- Jonassen, D.H., Beisner, K. and Yacci, M.A. (1993). Structural knowledge: techniques for representing, conveying, and acquiring structural knowledge. Hillside, N J: Erlbaum.
- Jonassen, D.H. and Reeves, T.C. (1996). *Learning with technology: Using computers as cognitive tools.* In: Jonassen, D.H. (Ed.), Handbook of research for educational communications and technolog. New York: Macmillan (pp. 693-719).
- Jones, M.G. (1993). Guidelines for screen design and user-interface design in computer-based learning environments. (Doctoral Dissertation, The University of Georgia, 1993). Dissertation Abstracts International, 54 (9), 308a 309a.
- Jones. M.G. and Okey, J.R. (1995) *Interface Design for Computer-based Learning Environments*. [Online]. Available: http://www.edumed.net/biblioteca/biblioartigos.htm
- Kearsley, G. (1990). *Designing Educational Software for International Use.* Journal of Research on Computing in Education, 23, 2, 242-250
- Kirkpatrick, D.L. (1959a). *Techniques for evaluating training programs*. Journal of ASTD, 13(11), 3-9.

University of Pretoria

- Kirkpatrick, D.L. (1959b). *Techniques for evaluating training programs*: Part 2-Learning. Journal of ASTD, *13*(12), 21-26.
- Kirkpatrick, D.L. (1960a). *Techniques for evaluating training programs*: Part 3-Behavior. Journal of ASTD, 14(1), 13-18.
- Kirkpatrick, D.L. (1960b). *Techniques for evaluating training programs*: Part 4-Results. Journal of ASTD, 14(2), 28-32.
- Laurel, B., Oren, T. and Don, A. (1990). Issues in Multimedia Interface Design: Media Integration and Interface Agents, CHI '90 Conference Proceedings, Seattle, WA, pp. 133139, April 1-5.
- Lawless, K.A., Smith, E.V., Kulikowich, J.M. and Owen, S.V. (2001). *Preservice teacher's believes about the relationships between domain knowledge and instructional media*. International journal of Instructional Media, Vol. 28 Issue 3, p261
- Light, G., Cox, R. (2001). Lecturing: Large Group Teaching, In, Learning and Teaching in Higher Education. London: SAGE Publications. Pp97-114.
- Lisewski, B. and Settle, C. (1996). *Teaching with Multimedia: a case study in Weed Biology*. [Online]. Available: http://www.ilt.ac.uk/public/cti/ActiveLearning/issue3/lisewski/index.html
- Litchfield, B. (1993). *Design Factors in Multimedia Environments: Research Findings and Implications for Instructional Design*. Paper presented at the Annual Meeting of the American Educational Research Association.
- Lloyd, D.H. (1968). *Visual Educ.* Oct., p 23
- Lutz, S. (S.A.) School of Anatomy and Human biology from the University of Western Australia. Blue Histology The Virtual microscope [Online]. Available: http://www.lab.anhb.uwa.edu.au/mb140/scope/scopeint.htm

Defenses

- March, H.W. and Roche, L.A. (1997). *Making student's evaluations of teaching effectiveness effective*. American Psychologist.52(11),pp.1187-1197.
- Mars, M. and McLean, M. (1996). Student's perceptions of a multimedia computer aided instruction recourse in histology. South African medical Journal 86:1098-1102
- Marton, F., and Saljo, R. (1984) *Approaches to learning*. In F. Marton, D. Hounsell, and N. Entwistle (Eds.), The experience of Learning (pp.242). Edinburgh: Scottish Academic Press.
- McCormac, C. and Jones, D. (1997). *Building a Web Based Education System*, Wiley Computer Publishing.
- McKenna, S. (1995). *Evaluating IMM: Issues for Researchers*. Open Learning Institute [Online]. Available: http://csu.edu.au/division/oli/oli-rd/occpap17/eval.htm
- MacPherson, B.R. and Brueckner, J. (2003). *Enhancing the dental histology curriculum using Computer technology*, Journal of dental education, March.
- Meyer, G. (S.A.) *Histology Practical Assistant*. University of Western Australia. [Online]. Available: http://www.anhb.uwa.edu.au/hpa/hpademo.html
- Microbrightfield, company Inc. of Williston, Vermont. [Online]. Available: http://www.microbrightfield.com
- Moga, M. (S.A.) Web pages as a supplement to a medical histology course. [Online]. Available: http://www.medlib.iupui.edu/etme/etbse6.htm
- Monnard, J. (S.A.) *How the Virtual Campus Will Change Future Education*. [Online]. Available: http://www.aum.iawf.unibe.ch/did/zsfhd.htm
- Multimedia Research group. University of Natal Durban. (Online). Available: http://www.und.ac.za/und/icd/mrgpublications.html
- Naicker, K. (1998). *Evaluating Internet courseware*. [Online]. Available: http://www.nu.ac.za/sles/students/student.asp?id=941482894

University of Pretoria

- Nakakoji, K., Aoki, A. and Reeves, B.N. (1996) "*Knowledge-Based Cognitive Support for Multimedia Information Design*," Information and Software Technology, 38(3), pp. 191-200.
- National training laboratories, Bethel Maine (1998). *Average Learning Retention Rates*. [Online]. Available: www.yscal.org/resources/assets/RL%20UPLOADS/
 FactSheets/LearningPyramid_bw.pdf
- Nel, P.P.C., Beylefeld, A.A. and Nell, M.M. (1997). Video-based Supplemental Instruction as an integral part of an academic support and development program. Unpublished manuscript, University of the Orange Free State at Bloemfontein, South Africa. [Online]. Available: http://www.umkc.edu/centers/cad/si/sidocs/pnvsis97.htm
- Nicol, A. (1990). Interfaces for learning: What do good teachers know that do not? In B. Laurel (Ed.), The art of human-computer interface design. (pp. 113-123). Maidenhead Birkshire: Pergammon Infotech Limited.
- Norcini, J.J., Meskauskas, J.A., Langdon, L.O. and Webster, G.D. (1986). *An evaluation of a computer simulation in the assessment of physician competence*. Eval Health Prof 9: 286-304
- Norcini, J.J., Blank, L.L., Arnold, G.K. and Kimball, H.R (1995). *The mini-CEX (clinical evaluation exercise): a preliminary investigation*. Ann Intern Med; 123: 795-799
- Norcini, J.J., Meskauskas, J.A., Langdon, L.O. and Webster, G.D. (2002). *Learning in practice. The death of the long case*. BMJ 2002;324:408-409 (16 February) (Online). Available: bmj.com/cgi/content/full/324/7334/408
- Ogilvie, R.W., Trusk, T.C., Fitzharris, T.P. and Blue, A.V. (S.A.). Computer-administered Formative and Summative Exams in a Medical Basic Science Course http://www.aum.jawf.unibe.ch/did/zsfhd.htm
- Oliver, R. (1998) *Evaluating web-based teaching materials*. Technology in Interactive Education Congress, 27-28 January, University of Natal Durban.

- Onibere, E.A. Morgan,S., Busang, E.M., and Mpoeleng, D. (2001). *Human-computer interface design issues for a multi-cultural and multi-lingual English speaking country* Botswana. *Interacting with Computers* 13(4): 497-512
- Papert, S. (1993). THE CHILDREN'S MACHINE Rethinking School in the Age of the Computer Basic Books, New York. [Online]. Available: http://www.stemnet.nf.ca/~elmurphy/emurphy/papert.html
- Perelman, L.J. (1992) School's out: hyperlearning, the new technology, and the end of education. New york, Morrow.
- Plomp, T. (2002). Some reflections on developmental research: Speaking notes for breakfast meeting with students. 30 August.
- Preece, J., Rogers, Y. and Sharp, H. (2002). *Interaction design: beyond human computer interaction*. John Wiley and Sons,Inc.
- Raymond, B. (2001). *Publishing accessible materials on the web and cd-rom.* A publication of the Federal Resource Center for Special Education. September.
- Reeves, T.C. (1992a). *Evaluating schools infused with technology*. Education and Urban Society Journal, 24(4), 519-534
- Reeves, T.C. and Harmon, S.W. (1994). *User Interface Rating Tool for Interactive Multimedia*. [Online]. Available: http://mime1.marc.gatech.edu/MM_Tools/evaluation/uirf.htm
- Reeves, T. (1999). *Teaching and learning online: Opportunities and responsibilities*. Keynote Address to Net*Working '99. Conference, Melbourne, 2 September.
- Reeves, T. (2002). Enhancing the worth of instructural Technology research through design experiments and other Developmental strategies. Paper presented on April 27, session 41. 29 International perspectives on instructural technology research for the 21st century.

University of Pretoria

- Richards, P.A., Richards, P.D.G., Coetzee, H.L. and Soley, J.T. (2000). *The optical microscope en route to extinction?* Journal of Audiovisual media in medicine. Vol 23 no 3 pg 113-118
- Romiszowski, A.F. (1993). *Developing interactive multimedia courseware and networks:*Some current issues in interactive multimedia. In Latchem, C, Williamson, J and Henderson-Lancett, L. (Eds.) Interactive Multimedia. Kogan Page: London.
- Salomon, G. Perkins, D,N. and Globerson, T. (1991). *Partners in cognition: extending human intelligence with intelegent technologies*. Educational researcher 20 (3), 2-9)
- Savery, J.R. (1995). *Problem based learning: An instructional model and its constructivist framework.* Educational Technology, September/October 31-38.
- Schroeder, E. (1992). *Interactive multimedia computer systems*. Educational Technology, Feb,59-60.
- Scriven, M. (1993). *Hard-won lessons in program evaluation*. San Francisco, CA: Jossey-Bass.
- Shelvin, M., Banyard, P., Davies, M. and Griffiths, M. (2000). The validity of student evaluation of teaching in higher education: Love me love my lectures. Assessment and Evaluation in higher Education, Vol. 25.No. 4,
- Shlechter, T.M. (Ed.). (1991). *Problems and promises of computer-based training*. Norwood, NJ: Ablex Publishing.
- Siegel, J. (1994). No computer know how. Electronic Learning, 13(5), 58.
- Simon, H.A. (1987). Computers and society. In S B Kiesler and L S Sproul, eds. Computing and change on campus, 4-15. New York: Cambridge University Press.
- Snodgrass, J.L. and Noyd, R.K. (2000). *Evaluation of our course text: What cadets told us.* The ASAFA Educator. [Online]. Available:

University of Pretoria

http://www.usafa.af.mil/dfe/educator/S00/snodgrass0500.htm

- Steyn, D. (2001). The value of students as part of the design team for educational software ITFORUM paper 53. [Online] Available: http://it.coe.uga.edu/itforum/paper53/paper53.htm
- Stokes, D. (1997) Pasteur's Quadrant: Basic science and Technological Innovation. Brookings Institution Press.
- Stuart, J. (1978). *Medical student concentration during lectures*. The lancet, September 2.
- Underwood, P.G. and Karelse, C. (1996). *Knowledge navigation and information management*: New rules for an old game. Proceedings of Conference on Information Technology in Tertiary Education.
- University of Idaho's "Distance education at a glance" [Online]. Availabe: http://www.uidaho.edu/eo/distglan.html
- Van den Akker, J. (1999). *Principles and methods of development research*. In J. van den Akker, N Nieveen, R.M. Branch, K.L. Gustafson, and Plomp, t.(Eds.), Design methodology and developmental research in education and training (pp. 1-14). The Netherlands: Kluver Academic Publishers.
- Vaughan, T. (1998). Multimedia Making it work. Fourth edition. Osborne/McGraw-Hill.
- Vincini, P. (2001). The use of participatory design methods in a learner-centered design process. ITFORUM paper 54.
- Video-Based Supplemental Instruction. The University of Missouri-Kansas City. The center for academic development. [Online]. Available: http://www.umkc.edu/cad/
- Yale Bulletin and Calendar (2002-2003). Special issue. Volume 3, number 1. [Online]. Available: http://www.yale.edu/opa/ybc_cab/story104.html