

References

- Abdulla, S. A. (2001). *Level of adoption of the Internet by ESL teachers at the Ohio State University*. Unpublished doctoral dissertation, University of Ohio, USA.
- Abdullah, M. R. (1999). *A study of Internet usage among school teachers in Alor Setar, Kedah*. (A dissertation in partial fulfillment of the Master of Computer Science). University of Malaya, Kuala Lumpur, Malaysia.
- Access to Internet for school students. (1995, August 22). *The Star [on-line]*. Available: <http://www.rangkaian.com/str.html> [1998, December 3].
- Agarwal, R., Ahuja, M., Carter, P. E., & Mitch, G. (1998). *Early and late adopters of IT innovations: extensions to innovation diffusion theory*. Available: <http://www.disc-nt.cba.edu/chin/digit98/panel2.pdf> [2001, October 7].
- Albion, P.R. (1999). Self-efficacy beliefs as an indicator of teachers' preparedness for teaching with technology. Available: <http://www.cssjournal.com/albion.html> [2002, October 11].
- Al-Najran, T. N. (1998). *Internet adoption and use by Kuwait University students: New medium, same old gratification*. Unpublished doctoral dissertation, University of Ohio, USA.
- All schools to be Smart schools by 2002. (1999, January 22). *The Star*, p.3.
- Alley, L. R. (1996). Technology precipitates reflective teaching: An instructional epiphany. *Change*, 28 (2).
- Algozzine, R. F. et al. (1997). *Basic technology competencies for educators. A self-assessment instrument*. Available: <http://www.coe.uh.edu/insite/elec-pub/html/1997/re-algo.html> [2000, May 4].
- Anderson, D. K., & Wells, J. G. (Fall, 1997). Learners in a telecommunication course: Adoption, diffusion and stages of concern. *Journal of Research on Computing in Education*, 30 (1), 83-97.
- Anderson, K. (1999). *Technology self-assessments and insights*. Department of Teacher Education. California State University, Long Beach. Available: <http://www.csulb.edu/~anders/Tech/Assess.html> [1999, March 28].
- Anderson, R. E. (Ed.). (1993). *Computers in American schools: An overview*. A National Report from the International IEA. Computers in Education Study. Minneapolis, MN: University of Minneapolis.
- Anderson, S. E. (1992). Factors associated with usage of a public telecomputing system. *Dissertation Abstracts International*, 54, 176-179. (University Microfilms No. ADG 932 4908).

- Anderson, S. E., & Harris, J. B. (1997). Factors associated with amount of use and benefits obtained by user of a statewide education telecomputing network. *Educational Technology Research and Development*, 45 (1), 19-50.
- Anderson, S. E., & Harris, J. B. (1995). *Educators' use of electronic networks: An e-mail survey of account holders on a statewide telecomputing system*. Paper presented at the Annual Meeting of the American Educational Research Association. (San Francisco, CA. April 18-22, 1995). ERIC Document Reproduction Service No. ED 3825229).
- Anderson, T., Varnhagen, S., & Campbell, K. (1997). Faculty adoption of teaching and learning technologies: Contrasting earlier adopters and mainstream faculty in Jacobsen, D.M. (1998). *Adoption patterns and characteristics of faculty who integrate computer technology for teaching and learning in higher education*. Unpublished doctoral dissertation, University of Calgary, USA.
- Annual Technology in Education Report. (1998). *Market Data Retrieval Report*. Available: <http://www.schooldata.com> [2000, April 3].
- Anuar Zaini M. Z. (2000, May 8). Teachers urged to be IT literate. *The New Straits Times*, p.3.
- Arnold, D. M. (1998). *A descriptive study of principals and teachers' perceptions of the value of technology for schools (elementary schools principals)*. Unpublished doctoral dissertation, University of Cincinnati, USA.
- Arosteguy, S. L. (1999). *Computer competencies of high school seniors in the state of Utah*. Unpublished doctoral dissertation, University of Utah, USA.
- Ayersman, D. J. (1996). Effects of computer instruction, learning style, gender and experience on computer anxiety, *Computers in Schools*, 12 (4), 15-30.
- Ayersman, D. J., & Reed, W. M. (1996). The effects of learning styles, programming and gender on computer anxiety. *Journal of Research on Computing in Education*, 28 (2), 148-161.
- Awang Had Salleh. (1999). Education in the information era. *Computimes, The New Straits Times*, p. 20.
- Baharin, M. R. (1998). Faktor penggunaan komputer di kalangan pensyarah maktab. [Factors influencing Internet use among teacher-trainers]. *Jurnal Pendidikan dan Matematik*, ms. 9 -37.
- Baker, M. (1994). *Technology competencies*. Unpublished Working Paper. College of Education and Human Services, Western Illinois, USA.
- Bandura. A. (1993). Perceived self-efficiency in cognitive development and functioning. *Educational Psychologist*, 28 (2), 117-148.

- Barker, B. O., & Dickson, M. W. (1996). A model for infusing advanced technology into teacher education. *Technology Diffusion*, 14-18.
- Barnes, A. (1998). E-mail as a non-directed means of developing independent reflection in beginning teachers of foreign languages. *Journal of Information Technology for Teacher Education*, 1 (2), 189-203.
- Barron, L. C., & Goldman, E. S. (1994). Integrating technology with teacher preparation in B. Means (Ed.). *Technology and Education Reform*, 81-110. San Francisco Jossey-Bass Publishers.
- Beating the drum loudly for Internet (1999, August 30). *New Straits Times*, p.16.
- Becker, H. J. (1999). Reaching the reluctant teacher. In Mckenzie, J. (1999). *Eschool News*, 8. Available: <http://www/fno.org./sum99/reluctant.html> [1999, November 28].
- Becker, H. J. (2001). *How are teachers using computers in instruction?* Paper presented at the 2001 meeting of the American Educational Research Association.
- Becker, H. J., & Anderson, R. E. (1998). *Teaching, learning and computing: A national survey of schools and teachers describing their best practices, teaching philosophies and use of technology*. Research funded by the National Science Foundation and the Office of Education Research and Improvement. U.S. Department of Education.
- Becker, H. J., & Ravitz, J. L. (1997). *The equity threat of promising innovations: The Internet in schools*. Paper presented at the Annual Meeting of the Society for the Psychological Study of Social Issues, Chicago.
- Becker, H. J., & Ravitz, J. L. (1999). The influence of computers and Internet use on teachers' pedagogical practices and perceptions. *Journal of Research of Technology in Education*, 31 (4), 356-384.
- Bell, P. D., Davis, E. A., & Lunn, M. C. (1995). The knowledge of integration environment: Theory and design. In Schnase, R. & Cunnius, E. C. (Eds.). *Proceedings of CSCL' 95*. The first International Conference on Computer Support for Collaborative Learning, pp.14-21. New Jersey: Lawrence Erlbaum Associates.
- Bellingham Public School District Scales (1998). Available: <http://www.ec.tased.edu.au/info.html> [1998, March 11].
- Birbili, Maria. (2000). Translating from one language to another. *Social Research Update*, Issue 31. Available: <http://www.soc.surrey.ac.uk/sru/31.html> [2002, June 15].

- Blanch, G. (1994). Don't all faculty want their own TV show? Barriers to faculty participation in distance education. *DEOS NEWS*, 4 (1). Available: listserv@psuvm.psu.edu.
- Boulware, Z. M. (1994). Identifying factors in the diffusion and implementation of the Florida information resource network. *Dissertation Abstracts International*, 53, 1533. (University Microfilms, No. AAC 9424089).
- Bowman, C. M. (2001). *Perceptions of administrative strategies and faculty satisfaction of Internet-based academic courses in Texas two-year colleges*. Unpublished doctoral dissertation, Texas Tech University, USA.
- Bratina, T., & Templeton, M. (1997). What pre-service elementary school teachers think about the Internet. *Compute-Ed*, 3. Available: http://computed.coe.wayne.edu/Vol_13/bratina.html [1998, September 15].
- Bredenkamp, S., & Rosegrant, T. (1994). Learning and teaching with technology. In J. L. Wright & D. D. Shade (Eds.). *Young Children: Active Learners in a Technological Age*, 53-61. Washington, DC. NAEYC Press.
- Brinkerhoff, J., & Koroghlanian, C. M. (2001). An investigation into students' pre-existing computer skills and attitudes toward Internet-delivered instruction. *Journal of Educational Technology Systems*, 29 (2), 119-141.
- Brown, C. A. (1999). *An analysis of teacher education faculty utilization of technology for effective learning environments*. Unpublished doctoral dissertation, University of Memphis, USA.
- Bournellis, C. (1995). Internet statistics, Internet world, 47-52, in Distributed Learning and the Internet by Locatis, C., & Weisberg, M., *Contemporary Education*, 68 (2), 100-103.
- Broholm, J. F., & Aust, R. (1994). Teachers and electronic mail: Networking on the network. *Journal of Technology and Teacher Education*, 2 (2), 167-182.
- Brooks, D., & Kopp, T. (1989). Technology in teacher education. *Journal of Teacher Education*, 40, 2-7.
- Brummelhuis, A., & Plomp, T. (1991). *The relation between problem areas and stages of computer implementation*. Paper Presented at the Annual Meeting for the American Educational Research.
- Bruner, J. S. (1997). *The culture of education*. Cambridge: Harvard University Press.
- Budget 2003 Issues. (2002, September 29). Government to develop ICT in rural schools too. *The New Straits Times*, p.3.

- Bull, G. et al. (1998). Virtual conferences. *Learning and Leading with Technology: Serving Teachers in the Classroom*, 25.
- Bullard, M. H. (1998). *University professors' attitudes towards educational technology: An analysis of selected variables*. Unpublished doctoral dissertation, University of Southern Mississippi, USA.
- Burkholder, J. (1995). *An annotated bibliography of the literature dealing with teacher training in the uses of computers in education*. (ERIC Document Reproduction Service No. ED 260696).
- Busch, T. (1995). Gender differences in self-efficacy and attitudes toward computers. *Journal of Educational Computing Research*, 12 (2), 147-158.
- Calderhead, J. (1988). The contribution of field experience to primary student teacher's professional learning. *Research in Education*, 40, 33-39.
- Campbell, N. J., & Williams, J. C. (1990). Relation of computer attitudes and computer attributions to enrollment in high school computer courses and self-perceived computer proficiency. *Journal of Research on Computing in Education*, 23, 276-289.
- Campus Networking Project Blueprint (2002). *ICT system installation via campus networking in teacher training colleges*. Teacher Training Division, Ministry of Education, Malaysia.
- Cardinale, L. A. (November, 1992). Female pre-service teachers' prior experience with computing. *Paper presented at the Annual Conference of Research on Women in Education*. Norfolk V.A.
- Caroll, J. B. (1999). Expert Internet information access. *Journal of Educational Computing Research*. 20 (3), 209-222.
- Carr, A. A., & Bromley, H. (1997). Technology and change. Pre-service preparations on agency. *Teaching Education*, 8 (2), 15-22.
- Carr, D. (1997). *Hypermedia: The multi-sensory way to enhance instruction*. Unpublished doctoral dissertation, George State University at Atlanta, USA.
- Cartas, Rodolfo, A. (1998). *The relationship between technology use by classroom teachers and factors which promote innovation adoption*. Unpublished doctoral dissertation, University of Southern California, USA.
- Carvalho, J. P. (1999). *Surfing lessons from the Internet: How the social settings affect college students' learned uses and gratifications*. Unpublished doctoral dissertation, University of North Carolina at Chapel Hill, USA.
- CEO Forum School Technology and Readiness Report. (1999). Available: <http://www.ceoforum.org> [2000, December, 12].

- Chan, Anthony. (1998). *In Malaysia Internet Book* by Wong S. L. Addison Wesley. (1998). Singapore: Longman Pte. Ltd.
- Chao, C.C (2001). *Learning with the Internet: A quantitative and qualitative analysis of university students Internet use and perceptions in Taiwan*. Unpublished doctoral dissertation, Pennsylvania State University, USA.
- Chapin, J. & Messick, R. (1996). *Elementary Social Studies*, 3rd Edition, White Plains. NY: Longman Publishers.
- Charmaz, K. (1990). Grounded theory: Objectivist and constructivist methods. *In Handbook of Qualitative Research*, 2nd Ed. Norman Denzin and Yvonne Lincoln, (eds.). Thousands Oaks, CA : Sage Publications. 509-536.
- Charp, S. (1998). Measuring the effectiveness of education technology. *Technological Horizons in Education Journal*. T.H.E. Editorial.
- Charp, S. (2000, March). The role of the Internet. *Technological Horizons in Education Journal*. T.H.E. Editorial.
- Chiero, R.T. (1998). *Teachers' professional uses of computers and perceptions of their value for work productivity*. Unpublished doctoral dissertation, The Claremont Graduate University and San Diego State University.
- Chmielewski, M. G. (1998). *Computer anxiety and learner characteristics: Their role in the participation and transfer of Internet training*. Unpublished doctoral dissertation, Wayne State University, USA.
- Chong, S. F. (1998). *Development and evaluation of an Internet training package for teachers*. (A dissertation in partial fulfillment of the Master of Education). University of Malaya, Kuala Lumpur, Malaysia.
- Christensten, R. (1997). *Effect of technology integration on the attitudes of teachers and their students*. Unpublished doctoral dissertation, University of North Texas, USA.
- Clark. R. W. (1999). *A study to identify levels of uses and stages of concerns in the adoption of new information technologies for classroom instruction by Pennsylvania business education teachers*. Unpublished doctoral dissertation, University of Temple, USA.
- Clarcken, R. H. (April, 1993). *Computer mediated support for student teaching and first year teaching*. Paper presented at the Annual Meeting of the American Education Research Association, Atlanta, G.A.
- Clifford, P., Friesen, S., & Jacobsen, D. M. (1998). *An expanded view of literacy: Hypermedia in the middle school*. Proceeding of ED-MEDIA/ED-TELECOM, 98. World Conference on Educational Multimedia and Hypermedia & World Conference on Educational Telecommunications, Charlottersville, VA Association for the Advancement of Computing in Education, 1598-99.

- Collaborating to upgrade skills with IT. (1999, March 1). *Computimes*, New Straits Times, p. 28.
- Collins, B. (1997). Sex differences in the association between secondary school students' attitudes toward mathematics and toward computer. *Journal for Research in Mathematics Education*, 18, 394-402.
- Comer, D. E. (1997). *The Internet*. Second Edition. Prentice-Hall, International Inc.
- Computer, IT training for trainee-teachers from next year (2000, April 20). *The New Straits Times*.
- Cooperman, N. (1998). *First connections: The interaction between teachers' pedagogical beliefs and their early use of the Internet in the classroom*. Unpublished doctoral dissertation, Columbia University of Teachers College, USA.
- Cox, B. (1995). *Internet literacy*. George Mason University.
- Craig, S., Singer, J., Allen, C., Whitehoude, V., Dimitrova, A., Sanders, K. (1995). *Facing the future: Attitudes of journalism educators and students about new media technology*. Paper presented at the Annual Meeting of the Association for Education in Journalism and Mass Communication. Washington, D.C. (ERIC Document Reproduction Service No. ED 389 000).
- Culnan, M. J. (1984). The dimensions of accessibility to online information: Implications for implementing office information systems. *ACM Transactions on Office Information Systems* 2 (2), 141-150.
- D' Andrade, Roy. (1991). *The development of cognitive anthropology*. Cambridge: Cambridge University Press.
- Dambrot, F. H., Watkins-Malek, M. A., Siling, M., Marshall, R., & Garver, J. (1985). Correlates of sex differences in attitudes toward and involvement with computers. Quoted in Shashaani, L. (1995). Gender differences in mathematics, experience and attitude and their relation in computer attitude. *Educational Technology*, 32-38.
- Dasar Komputer Kementerian. (1996, July 7). *Mingguan Malaysia*. Available: <http://mtk.kpm.my/~aspar-mtk/dasar.html> [2002, October 11].
- David, J. (1991). Restructuring with technology: *Partners in change*, 73 (1), 28-40. Phi Delta Kappan.
- Davis, H. (1996). The progression and future of open learning and within management development. *Journal of Management Development*, 16 (5), 368-385.
- Davis, N. (1998). Information technology for teacher education and professional development: responding to demand. *Journal of Information Technology for Teacher Education*, 7 (2).

- Davis, B. C., & Shade, D. D. (1999). Integrating technology into the early childhood classroom: The case of literacy learning. *Journal of Information Technology in Childhood Education*, 221-254.
- Deal, N. (1999). The cyberquest: A tool to assess educational resources on the Internet. *Technological Horizons in Education Journal*.
- Department for Education and Employment (1998). Information technology in teacher education: Increased recognition and demand (Editorial). *Journal of Technology for Teacher Education*. 6, 219-226.
- Dede, C. (March, 1996). Emerging technologies in distance education for business. *Journal of Education for Business*, 71, 197-200.
- Delcourt, M. A. B., & Kinzie, M. B. (1993). Computer technologies in teacher education. The measurement of attitudes and self-efficacy. *Journal of Research and Development in Education*, 27 (1), 35-40.
- Dewalt, K (1999). *Significant factors in professional staff development for elementary teachers that contribute to the use of computers in the classroom*. Unpublished doctoral dissertation, Widener University, USA
- DfEE (1998). *Teaching: High status, high standards, requirement for courses of initial training*. DfEE London.
- Dickerson, M.D. & Gentry, J.W. (1983). Characteristics of adopters and non-adopters of home computers. *Journal of Consumer Research*, 10 (2), 225-235.
- Diploma Pendidikan Malaysia (DPM). Teacher Training Syllabus (1997). *Panel penulisan penyelidikan DPM: Bahagian pendidikan guru. Kementerian Pendidikan Malaysia* [Malaysian Education Diploma, (DPM). Research Writing Panel: Teacher Training Division, Education Ministry of Malaysia].
- Dockstader, J. (1999). Teachers of the 21st Century know the what, why and how of technology integration. *Technological Horizons in Education. (T.H.E. Journal). Editorial*.
- Dooley, K. E. (1999). Towards a holistic model for the diffusion of Internet technologies: An integrative review of educational innovation studies. *Educational Technology and Society*, 2 (4). Available:http://ifets.ieee.org/periodical/vol4_99/kim_cooley.html [2002, October 11].
- Drnek, J. A. (1998). *Student learning style: Satisfaction, perceptions emotions and Internet use at a large Southwestern University*. Unpublished doctoral dissertation, Northern Arizona University, USA.
- Dutton, W., Kovaric, P., & Steinfield, C. (1985). Computing in the home: A research paradigm. *Computers in the Social Sciences*, 1, 5-11.

- Dwyer, D., Ringstaff, C., & Sandholtz, H. (1991). Changes in teachers' beliefs and practices in technology rich classrooms. *Educational Leadership*, 18 (5), 45-52.
- Eastin, M. S. (2001). *The role of cognitive modeling in predicting Internet use*. Unpublished doctoral dissertation, Michigan State University, USA
- Edwards, M. (1998). *From university computer lab to the elementary classroom :A retrospective study of teacher training in telecommunication*. Unpublished doctoral dissertation, University of Sarasota, USA.
- Egnatoff, W. J. (1999). Preparing teachers for effective and wise use of the Internet in schools. *Industry Canada Contracts*, No 67, HPE-5- M2666.
- Eisenberg, M. & Johnson, D. (1996). *Computer skills for information problem-solving: Learning and teaching technology in context*. Syracuse, New York.
- Ely, D. (1990). Conditions that facilitate the implementation of educational technology innovations. *Journal of Educational Technology*.
- Ertmer, P., Evenbeck, E., Cennamo, K. S., & Lehman, J. D. (1994). Enhancing self-efficacy for computer technologies through the use of positive classroom experiences, *ETR &D*, 42 (3), 45-62.
- Espinosa, L. & Chen, W. J. (1996). The effect of in-service training in technology and multiage grouping: Year one evaluation of constructing and networking for multiage Learning Project. *Journal of Computing in Childhood Education*, 7 (1/2), 13-38.
- Esthella, L., & Montes, S.D. (1999). *The use of Internet-based university courses as a tool for professional development of K-12 teachers*, Unpublished doctoral dissertation, University of Mexico, Mexico.
- Facer K., Furlong, J., Sutherland, R., & Furlong, R. (2000). Home is where the hardware is: Young people, the domestic environment and "access" to new technologies in Hutchby I and Moran-Ellis J. (eds.). *Children, Technology and Culture*, Falmer Press. London.
- Falba, C. (1998). *Technology use by a college of education faculty and factors influencing integration of technology in an undergraduate teacher-preparing program*. Unpublished doctoral dissertation, University of Nevada at Las Vegas, USA.
- Falk, D. R., & Carlson, H. L. (1991). Evaluating the effectiveness of multimedia applications in human service and teacher education. *Multimedia Review*, 2 (3), 12-17.
- Falvo, D.A. (2000). *Project teachers merging the Internet into their instruction and how the Internet affects professional practice*. Unpublished doctoral dissertation, West Virginia University, USA.

- Faseyitan, S.O. & Hirschbuhl, J. J. (1994). Faculty fears and perceptions of computer users. *Technological Horizons in Education Journal*, (4).
- Fetterman, D. M. (1989). Ethnography: Step by step. *Applied Social Research Methods Series*, 17, Newbury Park. CA. Sage.
- Finlay, K., & Finlay, T. (1996). The relative role of knowledge and innovativeness in determining librarian's attitudes toward and use of the Internet: A structural equation modeling approach. *The Library Quarterly*, 66 (1), 59-83.
- Fisher, C. W. (1991). Some influences on classroom computers on academic tasks. *Journal of Computing in Childhood Education*, 2 (2), 3-15.
- Fisher, C., Dwyer, D. C., & Yocam, K. (Eds.). (1996). *Education and technology: Reflection on computing in classrooms*. San Francisco: Jossey-Bass Publisher.
- Fishman B. & Pea, R. D. (1994). Practice policy for the Internet worked schools: A proposal emerging from the Calvis Project. *Quarterly of Education Technology*, 3 (1), 22-26.
- FitzGerald, J. (1996). The best questions. Available: [http:// www.coolth.com/open.html](http://www.coolth.com/open.html) [2002, November 10].
- Fluck, A. E. (1996). Computers in schools: A framework for development. Australia computer society and Australian council for computers in education. *Internet Publication*. Available: [http:// www.clare.tosed.edu.au/acspaper/compsch.html](http://www.clare.tosed.edu.au/acspaper/compsch.html) [1998, March 2].
- Forsyth, L. (1997). Teaching and learning materials at the Internet. Unleashing the power of the Internet as a classroom tool. *Communicative Education Issues*, 85, 64-99.
- Foster, J. J. (2001). *Self-efficacy, African American youth, and technology: Why the belief that 'I cannot do that' is dividing the digital divide*. Unpublished doctoral dissertation, University of Alabama, USA.
- Frary, R. B. (1998). *Brief guide to questionnaire development*. Office of Measurement and Research Service. Virginia Polytechnic Institute and State University.
- Frazier, G. G., & Frazier, D. (1993). *Tenet after one year*. Naples, FL: Web Associates.
- Fullan, M. G. (1982). The meaning of educational change, Toronto: OISE. In Gallo, M. A., & Horton P. B. (1994). Assessing the effect of high school teachers of direct and unrestricted access to the Internet: A case study of an East Central Florida High School. *Educational Technology, Research & Development*, 42 (4), 17-39.
- Fullan, M. G. (1992). *The meaning of educational change*. (2nd ed). New York: Teachers College Press.

- Fulton, K. (1993). Teaching matters: The role of technology in education. *Technology Review*, 5-10. In Northrup, P. T., & Little, W. (1996). Establishing Instructional Technology Benchmarks for Teacher Preparation Programs. *Journal of Teacher Education*, 47 (3), 213-222.
- Fusayil, A. (2000). *The adoption of Internet by faculty members at Ohio University*. Unpublished doctoral dissertation, Ohio University, USA.
- Gallo, M. A., & Horton P. B. (1994). Assessing the effect of high school teachers of direct and unrestricted access to the Internet: A case study of an East Central Florida High School. *Educational Technology Research & Development*, 42 (4), 17-39.
- Gardner, D. G., Dukes, R. L., & Discenza, R. (1993). Computer use, self-confidence and attitudes: A causal analysis. *Computers in the Human Behavior*, 9, 427-440.
- Garramone, G. M., Haris, A. C., & Anderson, R. (1986). Use of political computer bulletin boards. *Journal of Broadcasting and Electronic Media*, 30 (3), 325-339.
- Geoghegan, W. H. (1994). *Whatever happened to instructional technology?* Paper presented at the 22nd Annual Conference on the International Business School of Computing Association, Baltimore, MD. Available: <http://www.ike.engr.washington.edu/news/whitep/whg/wpi.html> [2001, March 23].
- George Tech Graphics. (1999). Graphics, Visualization and Usability Center (GVU). *GVU'S 3rd WWW User Survey*. Atlanta, GA: Georgia Tech Research Corporation. Available: http://www.gatech.edu/user-surveys/survey_home.html [2002, October 11].
- Geranis, J. M. (1999). *Elementary teachers' beliefs regarding the use of Internet in K-5 classrooms and the impact on their teaching practices*. Unpublished doctoral dissertation, University of Arizona, USA.
- Gibson, S. & Oberg, D. (1997). *Internet use in Alberta schools: A summary report*. Available: <http://www.ualberta.ca/~segibson/INTSTUD2.HTML> [2001, February 12].
- Gilbert, S. (1996). Making the most of a slow revolution. *Change*, 28 (2), 10-23.
- Glaser, B., & Strauss, A. (1967). *The discovery of grounded theory*. Chicago: Aldine.
- Gold, S. (1999). *An online workshop for higher education faculty on the practices of effective online teaching and learning*. Unpublished doctoral dissertation, Columbia University of Teachers College, USA.
- Gonzales. C. L., & Thompson, V. (1998). Reciprocal mentoring in technology use: Reflecting with a literacy educator. *Journal of Information Technology*.

- Gorden, G. N., Gomez, C. M., Pea, R. D., & Fishmon, B. J. (1995). *Using the World Wide Web site to build learning communities in K-12*. Available: <http://www.covis.awu.edu/papers/k12web.html> [1999, May 7].
- Gray J., & Wilcox, B. (1995). *Good school, bad school: Evaluating performance and encouraging improvement*. Open University Press, Buckingham.
- Greater usage of computers is becoming the norm. (1999, April 23). *New Straits Times*, p.18.
- Greenberg, R., Raphael, J., Keller, L., & Tobias, S. (1998). Teaching high school science using image processing: A case study. *Journal for Research in Science Teaching*, 3 (35), 297-328.
- Green, K. (1996). The coming ubiquity of information technology. *Change*, 28 (2), 24-31.
- Greene, Jennifer C., Coracelli, Valerie J., & Graham, Wendy, F. (1989). Towards a conceptual framework for mixed method evaluation design. *Educational Evaluation and Policy Analysis*, 11 (3), 225-274.
- Grendall, P., Menelaou, H., & Brennan, M. (1996). Open-ended questions: Some implications for mail survey research. *Marketing Bulletin*, 7, 1-8.
- Grove, J. D. (1998). *An exploratory study to examine the classroom instructional procedures of the 21st century teachers and non-21st century teachers and how their student achievement varies*. Unpublished doctoral dissertation, University of Memphis, USA.
- Hadfield, O. D., Maddux, C. D., & Love, C. D. (1997). Critical thinking ability and prior experience as predictors of reduced computer aversion. *Computers in the Schools*, 13 (3/4), 13-29.
- Hadley, M. & Sheingold, K (1993). Commonalities and distinctive patterns in teachers' integration of computers. *American Journal of Education*, 101, 261-315.
- Hall, G. E., George, A. A., & Rutherford, W. L (1977). *Measuring the stages of concern about an innovation: A manual for use of the stages of concern questionnaire about an innovation*. Austin: Research and Development Center for Teacher Education, The University of Texas at Austin. (ERIC Document Reproduction Service No. Ed 147342).
- Hamilton, J., & Thompson, A. (1992). *The adoption and diffusion of an electronic network for education*. (IRO 025796). Paper presented at the Convention of the Association for Educational Communications and Technology Division. (Eric Document Reproduction Service No. ED 347991).
- Hammer, M. & Champy, J. (1993). *Reengineering the corporation*. New York. Harper Business.

- Handler, M. (1993). Preparing new teachers to use computer technology: Perceptions and suggestions for teacher educators. *Computers in Education*, 20, 147-156.
- Harris, J. M. (1994). A model for integration of telecomputing in pre-college curricula. *TEIS*, 5.
- Harris, J. (1995). Organizing and facilitating telecollaborative projects. *The Computing Teacher*, 22 (5), 66-69.
- Harris, J. M. (2000). Utilization of computer technology by teachers at Carl Schurz High School, a Chicago public school. EdD dissertation, Northern Illinois University, USA.
- Harris, J. B., & Grandgenett, N. (1996). Correlates among teachers' anxieties, demographics, and telecomputing activity. *Journal of Research on Computing in Education*, 28 (3), 300-317.
- Harris, S. (1999). Secondary school student's use of computers at home. *British Journal of Educational Technology*, 30 (4), 331-339.
- Harvey, G., Kell, D., & Drexler, N. G. (1990). *Implementing technology in the classrooms: Paths to success and failure*. Paper presented at the Annual meeting of the American Educational Research Association, Boston, MA, April 16-20.
- Hashim, S. (1996). *Projek percubaan literasi komputer*. (Computer literacy trial project) p.1. Available: <http://www.mtk.kpm.my/pdkp/lk/literasi/html> [1999, January 5].
- Hatcher, L. (1994). *A step-by step approach to using the SAS (R) system for factor analysis and structure equation modeling*. CARY, NC: SAS Institute.
- Haynes, D.E. (1999). *The Texas Library connection network: Usage by school library media specialists related to the stages of concern*. PHD dissertation, The University of Texas at Austin, USA.
- Hemenway, M.V. (1999). *The changing role of the teacher in the classrooms that use the Internet as a teaching tool*. Unpublished doctoral dissertation, The Claremont Graduate University, USA.
- Henry, P. D. (1998). *Faculty use of network communications as a medium for scholarly work*. Unpublished doctoral dissertation, New York University, USA.
- Herring, E. L. R. (1999). *The effect of a state supported Internet courseware for educators on Internet knowledge and Internet concerns of rural educators*. Unpublished doctoral dissertation, University of Southern Mississippi, USA.

- Hill, B. K. (2000). *Weaving information: Students' use of the Internet to find information*. Unpublished doctoral dissertation, University of Washington, USA.
- Hignite, M. A., & Echternacht, L. J. (1992). Assessment of the relationship between the computer attitudes and computer literacy levels of prospective educators. *Journal of Research in Computers in Education*, 24, 380-389.
- Hiltz, S. R., & Johnson, K. (1989). Measuring acceptance of computer-mediated communication systems. *Journal of the American Society for Information Science*, 40 (6), 386-397.
- Hinkle, D. E., Oliver, J. D., & Hinkle, C.A. (1985). How large should the sample be? Part II- the one sample case. *Educational and Psychological Measurement*, 45, 271-280.
- Ho, Caroline. (December, 1998). Online grammar teaching and learning: Promises and Pitfalls. *Guidelines: A Periodical for Classroom Language Teacher*, 20 (2).
- Hoffman, B. (January, 1997). Integrating technology into schools. Giving teachers the support they need. *Education Digest*, 51-59.
- Hogan, M. A. (1999). *Implementation of a global curriculum telecommunications project in Jerusalem*. Unpublished doctoral dissertation, Columbia University Teachers College, USA.
- Hogle, J. G. (1999). *Survey of instructional technology use in poultry science education*. Unpublished doctoral dissertation, University of Georgia, USA.
- Honey, M., & Henriquez, A. (1993). *Telecommunications and K-12 educators: Findings from a national survey*. New York Center for Technology in Education. Bank Street, College of Education.
- Honey, M., & McMillan, K. (1993). *Case studies of K-12 educators use of the Internet: Exploring the relationship between metaphor and practice*. New York.
- Honey, M. & Moeller, B. (1990). Teacher's beliefs and technology integration: Different values, different understandings, *Research*, 6. Bank Street College of Education's Center for Technology in Education.
- Horban, D. (November, 1998). Technology and Writing. *Learning and Leading with Technology. Serving Teachers in the Classroom*, 25.
- Houghton, M. (1997). *State strategies for incorporating technology into education*. Washington, DC: National Governor's Association.
- Houle, P. A. (1996). Toward understanding student differences in computer skills course, *Journal of Educational Computing Research*, 14 (1), 25 - 48.

- Hoy, W., & Woolfolk, A. (1989). Supervising student teachers. In A. E. Woolfolk. (Ed.). *Research Perspectives on the Graduate Education of Teachers*, 108-131. Englewood Cliffs, New Jersey: Prentice Hall.
- Hueth, A. G. (1998). *Adoption, diffusion and optimal uses of computer technologies for instruction in higher education. A case study of a Midwest College*. Unpublished doctoral dissertation, The University of Dayton, USA.
- Hulin, L. H., Dragsow, F., & Parsons, C.K. (1983). *Item response theory: Application to psychological measurement*. Homewood, IL: Dow Jones-Irwin.
- Hunt, N. P. (1994). Intentions and implementations: The impact of technology coursework in elementary classrooms. In J. Willis, B. Robin, D. A. Willis (Eds.). *Technology and Teacher Education Annual*, 38-41. Charlottesville, VA: Association for the Advancement of Computing in Education.
- Hunt, N. P., & Bohlin, R.M. (1995). Events and practices that promote positive attitudes and emotions in computing courses. *Journal of Computing in Teacher Education*, 11 (3), 21-23. SP 54325.
- Hunter, C. D. (1999). *The uses and gratifications for the world wide web*. University of Pennsylvania.
- IDC (International Data Corporation). (1999, January 23). Getting right down to electronic business. *Business Computing, The New Straits Times*.
- IDC (International Data Corporation). (2002, January 5). Widening Gap in Malaysia Internet use. *The Star*.
- Intel leads the way. (2002, August 4). *Sunday Star*, p. 10.
- International Society for Technology in Education. (1997). *Standards for basic endorsement in educational computing and technology literacy*. Available at: <http://www.iste.org/projects/techstandards/basic.html> [1999, March 18].
- Internet Competency Matrix. (1997). Available: <http://www.rimbrandt/ReolsEom/97aQuizInternet.competnecy.html> [1998, December 12]
- Internet for the rest of us (1998, July 28). *In-Tech, The Star*, p.31.
- Irani, Z., & Sharp, J. M. (1997). Integrating continuous improvement and innovation into a corporate culture: A case study. *Technovation*, 17 (4), 199-220. Elsevier Science Ltd.
- Iwu, H. O. (1998). *Computer competencies needed for the certification of secondary school business teachers*. Unpublished doctoral dissertation, University of Nebraska-Lincoln. Dissertation Abstracts International.

- Jacobsen, D. M. (1998). *Adoption patterns and characteristics of faculty who integrate computer technology for teaching and learning in higher education*. Unpublished doctoral dissertation, University of Calgary, USA.
- Jacobsen, D. M. (2000). *Excellent teaching and early adopters in instructional technology*. Paper presented at LA MEDIA: World Conference on Educational Multimedia/Hypermedia & Educational Telecommunication, June 26 - July 1, 2000, Montreal. Quebec. Canada.
- Johnson, D. (February, 1995). Students' access to Internet: Librarians and teachers working together to teach higher level survival skills. *Teacher Librarian. The Journal for School Library Professionals*, 8-12.
- Johnson, D. (1997). The Mankato scales rubrics for educators. *The Technology Connection Journal*.
- Johnson, D. (1998). *The indispensable teacher's guide to computer skills: A staff development guide*. Linworth Publishing.
- Johnson, D. L. (1997). Integrating technology in the classroom: The time has come. *Computers in the Schools*, 1 (1/2), 1-5.
- Johnson, R. J. (1997). What sells technology education? *Tech Directions*, 56 (8), 32-34.
- Johnston, R. (1997). Distance learning: Medium or message. *Journal of Further and Higher Education*, 21 (1), 107-122.
- Jonassen, D.H. (1996). Supporting Communities of Learners with Technology: A vision for integrating technology with learning in schools. *Educational Technology*, 60-63.
- Joyce, B. (1974). *Listening to different drummers: Evaluating alternative instructional modes*. In Competency, Assessment, Research & Evaluation. Houston, TX: University of Houston.
- K-ICT. (2002 September, 19). Penang ICT Survey produces unexpected results. *Tech Plus. The New Straits Times*, p. 2-3.
- Kagan, D. (1993). *Laura and Jim and what they taught me about the gap between educational theory and practice*. Albany, New York. State University of New York Press.
- Karahanna, E., Straub, D.W., & Chervany, N. L (1998). *Information technology adoption across time: A cross sectional comparison of pre-adoption and post adoption beliefs*, forthcoming in MIS Quarterly, 1998.
- Karchmer, R. A. (1999). *Teacher on a journey: Examining the changes K-12 educators report as they use the Internet to support teaching and literacy learning*. Unpublished doctoral dissertation, University of Syracuse, USA.

- Karim, S. (1996). Pendidikan komputer: Satu tinjauan berkaitan sikap dan kemahiran guru agama. [Computer Education. An exploratory study of attitudes and skills of religion teachers]. *Jurnal Pendidikan MPI, Jilid 4*, Bangi, Jawatan Kuasa Penerbitan Jurnal.
- Karim, A. M. (1999). *Computer technologies at Universiti Utara Malaysia: Faculty use, knowledge, skills, interests and attitudes*. Unpublished doctoral dissertation, University of Virginia, USA.
- Katz, E. Blumler, J. G., & Gurevitch, M. (1974). Utilization of mass communication by the individual. In J.G. Blumber and E. Katz (Eds.). *The Uses of Mass Communications*, 19-32. Beverly Hills. CA: Sage Publications.
- Kaur, A. (2001). *Design and evaluation of a web-based constructivist- learning environment for primary school students* Dissertation submitted for fulfillment for the Degree of Doctor of Philosophy in Education, University of Malaya, Kuala Lumpur, Malaysia.
- Kaur, R. (1998). Kajian keberkesanan program praktikum kursus Diploma Perguruan Malaysian peringkat III daripada persepsi guru pelatih IBMM. [Research on the effectiveness of the level 3 Malaysian Diploma Education practicum program from the perceptions of teacher-trainees of IBMM]. *Forum Penyelidikan Institut Bahasa Melayu Malaysia*. 5, 87-127. IBMM Research Forum.
- Kaye, A. (1998). Computer mediated communication and distance education. In Mason, R., & Laye, A. (Eds.). *Mind Weave: Communication, Computers and Distant Education*. Oxford: Pergamon Press.
- KDP Program. (1995). *Computer in education program*. Available: <http://mtk.kpm.my/~aspor/kdp-mtk/kdp/rt.html> [1999, April 22].
- Kearsely, G., & Lynch, W. (1994). *Educational technology: Leadership perspectives*. Englewood Cliffs, NJ: Educational Technology Publications.
- Kelly, K. B. (1998). *The web of discipline: Biglan's categories, the World Wide Web and relevance of academic discipline*. Unpublished doctoral dissertation, University of Maryland College Park, USA.
- K-ICT (Knowledge-Information Council of Technology) (2002, September 19). Penang ICT survey produces unexpected results. *Tech Plus, The Star*, p, 2.
- Kinzie, M. B. & Delcourt, M. (1991). *Computer technologies in teacher education: The measurement of attitudes and self-efficacy*. Paper presented at the Annual Meeting of the American Educational Research Association, Chicago. (Eric Document Reproduction Service NO. ED. 331891)

- Kinzie, M. B., & Delcourt, M. (1992). *Computer technologies: Attitudes and self-efficacy across undergraduate disciplines*. Manuscript in preparation.
- Kitchell, M. (1995). *Survey finds students with little access to the Internet*. Initially retrieved March-May, 1997 from <http://www.netizen.com/netizen/97/14/katzoa.html>
- Kitchin, D. (November, 1997). Working with resistance to change. *Focus on Change Management*, 17-19.
- Klemm, R., & Snell, J. R. (1994). Teaching via Networked PC'S. What's the best medium? *Technological Horizons in Education*, 10, Editorial.
- Kluver, R. C., Lam, T. C., Hoffman, E. R., Green, K. E., & Swearingner, D.L. (1994). The computer attitude scale: Assessing changes in teachers' attitudes towards computers. *Journal of Educational Computing Research*, 3 (11), 251-261.
- Kraut, R., Scherlis, W., Mukhopadhyay, T., Manning, J., Kiesler, S. (1996). The home Net trial of residents. Internet services. *Communication of the ACM*, 39, 55-63.
- Kwek, E. J. (1999). *The identification of the perceptions of Internet-using teachers in grade 4 through 8 regarding Internet use in schools*. Unpublished doctoral dissertation, University of La Verne.
- Lane-Kelso, M. E. (2001). *Integrating technology in the classroom: Teacher-training case study*. Unpublished doctoral dissertation, University of Northern Arizona, USA.
- Latham, G. (1988). The birth and death cycles of educational innovations. *Principal*, 68 (1), 41-43, cited in Dooley, K. E. (1999). Towards a holistic model for the diffusion of Internet technologies: An integrative review of educational innovation studies. *Educational Technology and Society*, 2 (4).
- Layfield, K. D. (1998). *A national assessment of secondary agriculture teachers' perceptions and use of the Internet*. Unpublished doctoral dissertation, Pennsylvania State University, USA.
- Leavitt, C., & Walton, J. R. (1975). Development of a scale for innovativeness. In M. J. Schlinger (Ed.). *Advances in Consumer Research*, 2, 545-554.
- Lee, K. W. J. (1998). *Faculty utilisation, attitudes and perceptions regarding computer technology at Mississippi State University*. Unpublished doctoral dissertation, Mississippi State University, USA.
- Lee, N. N. (2002, September 29). Education boon for all. *Sunday Star*, p.2.
- Lennertz, J. C. (1999). *Perceptions about Internet use by teaching faculty at small Christian colleges and universities*. Unpublished doctoral dissertation, Indiana University, USA.

Letchmanan, V. (1999). Satu kajian komparatif tentang penggunaan Internet antara guru sekolah kerajaan dan sekolah swasta. *A comparative study on the usage of the Internet among government and private secondary school teachers*. (A dissertation in partial fulfillment of the Master of Education). University of Malaya, Kuala Lumpur, Malaysia.

Let's do something about it. (1998, July 28). *In-Tech, The Star*, p. 31.

Lewin, K. (1968). In Kreitner, R., & Kinciki, A. *Organizational behavior*. Fourth Edition, McGraw Hill, p. 618.

Lincoln, Y.S., & Guba, E.G. (1985). *Naturalistic inquiry*. Beverley Hills, CA: Sage.

Littauer, J. (1998). *A know how on using courseware in the classroom*. Office of Technology Assessment. U. S. Congress. Teachers and Technology: Making the Connection: OTA Report Summary. Washington.

Loyd, B. H., & Gressard, C. P. (1984a). *Differences by gender and computer experience*. Paper presented at the Annual Meeting of the American Education Research Association. New Orleans.

Loyd, B. H., & Gressard, C. P. (1984b). Reliability and factorial validity of computer attitude sales. *Educational and Psychological Measurement*, 44, 501-505.

Loyd, B. H., & Gressard, C.P. (1987). Gender and computer experiences as factors in the computer attitudes of middle school students. *Journal of Early Adolescence*, 7, 13-19.

Lupo, R. J. (1999). *Use of the Internet in the curriculum development in selected Illinois secondary schools*. Unpublished doctoral dissertation, Northern Illinois University, USA.

MacMillan, R. B, Liu, X., & Timmons, V. (1999). *Teachers, computers and the Internet: The first stage of a community-initiated project for the integration of technology into the curriculum*, 43 (4), 222-223.

Maddux, C.D. (1994). The Internet educational prospects and problems. *Educational Technology*, 134 (7), 37-42.

Maddux C. D. (1996). The state of the art in web-based learning. *Computers In The Schools*, 12 (4), 63-71.

Mahathir Mohamad. (1997, October, 12). Launch of Information Technology Campaign. *New Straits Times*, p.12.

Making smart schools a reality (1999, October, 4). *Computimes, New Straits Times*, p. 26.

- Malaysian Communication and Multimedia Commission. (MCMC). (2002 September, 5). Can mobile Internet help bridge the digital divide? *Tech. Plus, The Star*, p.10.
- Malaysian Institute of Microelectronics Systems. (MIMOS). (1998). Available: <http://www.jaring.my/msia/ind/msc.html#definition>. [2000, June 30].
- Market Data Retrieval, Inc. (1997). *National survey of Internet usage: Teachers, computer coordinators and school librarians, Grades 3-12*. Shelton, CT: Market Data Retrieval Inc.
- Market Data Retrieval, Inc. (1998, December 17). *Majority of schools wired, teachers not prepared*. (Annual Technology in Education, 1998 Report) Available: <http://www.school.data.com>. [2002, October 11].
- Marcinkiewicz, H. R. (1994). Computers and teachers: Factors in influencing computer use in the classroom. *Journal of Research on Computing in Education*, 26 (2), 220-237.
- Marshall, J. G. (1987). *The adoption and implementation of online information technology by health professionals*. Unpublished Doctoral Dissertation, University of Toronto, USA.
- Matthew, N. M. (1998). *The effect of electronic networking on pre-service attitude toward science teaching*. Unpublished doctoral dissertation, University of Texas at Austin, USA.
- Mathew, K.I., Parker, R. & Wilkinson, L. (1998). *Faculty Adoption of Technology: Stages of Concern*. Available: http://www.coe.uh.edu/insite/elec-pub/HTML_1998/fd_matt.html [2002, October 11].
- Mathies, B. K., & Nelson, B. (1995). A network named Desire. *Tech Trends*, 40 (1), 20-23. Mattel, Inc.
- Matusевич, M. N. (1999). *Implementing technology in a fifth-grade classroom: Schools and home perspectives*. Unpublished doctoral dissertation, Virginia Polytechnic Institute and State University, USA.
- Maule, R. W. (1993). The network classroom. Interpersonal computing and technology: *An Electronic Journal for the 21st Century*. Available: <http://www.infix.emp.paeduni-muenchen/De/nic/material/ipct/html> [2000, October, 2].
- Maurer, M. M. (1994). Computer anxiety correlates and what they tell us: A literature review. *Computers in Human Behavior*, 10 (3), 369-376.
- Maxim, G. (1999). *Social studies and the elementary child*, Englewood Cliffs. NJ: Merrill.
- McAulay, K. J. (1993). Computer use among college undergraduates. *Journal of College Student Development*, 34, 30-31.

- McCord, J. (1998). A faculty computer nexus. *Microcomputer Working Paper Series*. Drexel University, Philadelphia, PA (ERIC Document Reproduction Service No. ED 254116).
- McCollough, R. (1986). *The effect of computers in the classroom: Teacher attitudes toward computer-assisted instruction*. Doctoral dissertation, Southern Carolina State College. Dissertation Abstracts International, 52, 02A.
- McCoy, Leah, P., & Baker, T. H. (1994). *Gender differences in pre-service teachers and computer attitudes*. Available: http://www.coe.edu/insite/elec-pub/html1997_re-mcco.html [2002, October 11].
- McGill, J. L. (1998). *Computer competencies needed by secondary teachers to be proficient using microcomputers in teaching*. Doctoral dissertation, Kansas State University, USA.
- McIntyre, S. & Finder, K. (1996). An effective model for technological professional development in higher education. *Technology Diffusion*, 11-14.
- McKenzie, J. (1997). *Internet (and information) readiness*. Initially retrieved March-May 1997 from the World Wide Web: <http://fromnowon.org/apr97/indicator.html>
- McKenzie, J. (1999a). Adult technology learning. Creating learning cultures with just-in-time support. *The Education Technology Journal*. Available: <http://www.fno.org.eschool/adult.html>. [2001, June 19].
- McKenzie, J. (1999b). Reaching the Reluctant Teacher. *Eschool News*, 8, Available: <http://www.fno.org/sum99/reliuctant.html>
- McLagen, P. (1983). *Models for excellence*. Washington DC. American Society for Training and Development.
- McLagen, P., & Suhadolnik, D. (1989). *Models for HRD practice: The research report*. Alexandria, VA: American Society for Training and Development.
- McLennan, S. A. (1997). *Teachers, Internet and schools: Case studies of challenge and change*. Unpublished doctoral dissertation, University of Colorado, USA.
- MCMC (2002, September 5). Can mobile Internet help bridge the digital divide? *Tech Plus, The Sunday Star*, p.10.
- Mellar, H., & Jackson, A. (1994). The changing picture of IT experience in post-graduate training. *Journal of Computer Assisted Teaching*, 10, 14.
- Merseth, K. K. (1991). Supporting beginning teachers with computer networks. *Journal of Teacher Education*, 42, 140-14.

- Michaelis, J. & Garcia, J. (1996). *Social studies for children*. Boston: Allyn & Bacon.
- Matrix Information Directory Services, Inc. (MIDS). (1997). Austin, Texas. Available : <http://www.mids.org>. [2002, October 5].
- Milken Exchange on Educational Technology. (1998). *Professional status of technology in teacher education. Report on twenty-one states in America*. Available: <http://www.milkenexchange.org/pilot/html> [1999, November 11].
- Mimos Internet Education Resources. (1997, October 15). *New Straits Times*, p.7.
- Minnesota Department of Children, Families and Learning, (1996). *Graduation standards*. St. Paul MN: Minnesota.
- Mobile Internet Unit to help Non-Smart Schools. (1999, August 7). *The Star*.
- Moersch, C. (March, 1998b). Enhancing students' thinking skills. Exploring model technology integration sites. *Learning and Leading with Technology: Serving Teachers in the Classroom*, 25 (6).
- Moersch, C. (1998a). *Charter schools. Learning and Leading with Technology: Serving Teachers in the Classroom*, 26 (3), 4-5.
- Moersch, C. (1999). Computer efficiency. Measuring the instructional use of technology. *Learning and Leading with Technology. Serving Teachers in the Classroom*, 24 (4), 52-56.
- Mohamed Khalid & Wan Mohd Salleh. (August, 1986). Computer literacy in the Malaysian context and its implication strategies in schools. Quoted in Lee Sau Lan & Ng Kwan Hoong (Eds.). *Proceedings of National Seminar: Educational Computing in National Development*. University of Malaya, Kuala Lumpur, Malaysia.
- Mohammad Hasan Al Rahman. (1998). Tahap penggunaan komputer untuk pengajaran di kalangan guru sekolah: Satu tinjauan. *Konvensyen Teknologi Pendidikan ke XI*. [The level of computer usage for teaching among schoolteachers: An exploratory study]. *XI National Convention on Educational Technology*. 5-6 September 1998. Kota Bahru, Kelantan.
- Morahan-Martin, J. (1998). *Women and girls last: Females and the Internet*. International Conference. IRISS, 25th-27th March, 1998, Bristol, UK.
- Morahan-Martin, J., Olinsky, A., & Schumacher, P. (1992). Gender differences in computer experience, skills and attitudes among incoming college students. *Collegiate Microcomputer*, 10, 1-8.
- Mubarak, A.M. (2001). Faculty adoption of Internet technology in Saudi Arabian universities. Unpublished doctoral dissertation. The Florida State University, USA.

- Myint Swe Khine. (2001). Attitudes towards computers among teachers education students in Brunei. *Journal of Instructional Media*, 28 (2), 147-151.
- Najib, T. R. (1999, January 22). Proposal that all schools be made into Smart Schools. *The Star*.
- Nasirun, J. (1999). *The attitudes of lecturers in Darul Aman teacher training institute (IPDA) toward the professional use of computers*. Master thesis, University of Houston/Institut Aminudin Baki.
- National Center for Education Statistics. (NCES). (1998). *Internet access in public schools*. National Center for Education Statistics, Washington, D.C.
- National Council for the Accreditation of Teacher Education (NCATE) 1996). 21st century teachers: From chalkboards to computers. *Quality Teaching*, 6 (8).
- National Council for Accreditation of Teacher Education. (1993). Proposed refinements of NCATE's Standards for Accreditation of Professional Education Unit: Washington, DC.
- National Council for Teacher Accreditation (NCATE). (1997). Technology and the new professional teacher: Available: <http://www.ncate.org/accred/projects/tech/tech-21.htm>. www.ncate.org [2002, October 11].
- National Education and Research Information Technology Conference (NERC) (2002, April 10). *The Star*, p.1.
- National Education Philosophy (1993). Available at Online Teacher Education Division: <http://www.moe.doe.my>. p.3 [1999, February, 18].
- National priority to the implementation of smart schools despite the economy slow down (1999, July, 28). *The New Straits Times*.
- Net access for rural folk. New initiative to help narrow the digital divide. (2002, September, 19). *Computimes, The New Straits Times*, p.1.
- Nettles, E.A.C. (1998). *Class web sites: A design model for instructors*. Unpublished doctoral dissertation, University of Nevada, USA.
- Newman, D. & Bernstein, S. (1992). *Local infrastructure for school networking: Current models and prospects*. (BBN Rep, No 77726). Boston.
- Nielsen Internet Demographic Survey. (1995, October 30). *Executive Summary*. Available: <http://www.commerce.net/information/survey/exec-sum.html>. [1999, March 13].

- Norris, C. & Solloway, E. (1999). *Teachers and technology: A snapshot survey*. Texas Center for Educational Technology. Available: <http://www.tcet.unt.edu/stages.html> [1999, December, 16].
- North Carolina Department for Public Instruction. (1993). *Computer skills and curriculum*. Available: [http://oaktree.Dpi.state.nc.us/curriculum/computer skills/computer curriculum/html](http://oaktree.Dpi.state.nc.us/curriculum/computer_skills/computer_curriculum/html) [2002, October 11].
- Nunnally, J.C. (1978). *Psychometric Theory*. (2nd ed.). New York. McGraw-Hill.
- Overbaugh, R. C. (1995). The effect of course focuses on pre-service teachers' attitudes toward personal and school uses of computers and computer anxiety. *Journal of Computing in Teacher Education*, 12 (2), 18-23.
- Owen, M. B. (1999). *Factors related to the use of Internet by North Carolina: Cooperative extension field faculty*. Unpublished doctoral dissertation, North Carolina State University, USA.
- Owston, R. D. (1997). The world wide web: A technology to enhance teaching and learning. *Educational Researcher*, 26 (2), 27-33.
- Page, M. S. (1999). Perils and Promises using the Internet in American Education. *Information Technology in Childhood Education*, 79-99.
- Palmgreen, P., Wenner, L.A., & Rayburn, J. D. (1980). Relations between gratifications sought and received: A study of television news. *Communication Research*, 7, 161-192.
- Pan, Alex, C., & Lee, Doris. (1997). *Factors that affect pre-service and in-service teachers' learning about computers*. Paper presented at the ICCE' 95, Singapore. 5-8 December. Available: <http://www.coe.ah.edu/insiteelec-pub/html.1997/re-pan.htm>.
- Parker, W., & Jarolmek, J. (1997). *Social studies in elementary education*. Uppers Saddle River, New Jersey.
- Partee, M. H. (1997). Using e-mail, websites and newsgroups to enhance traditional classrooms. *The Feature*, 4, Salt Lake City.
- Patton, M. Q. (1990). *Qualitative evaluation and research methods*. 2nd Ed. Newby Park : CA Sage.
- Peterson, R. (1999). *Journal of Consumer Research*, 21 (7).
- Phillips, J. A. (2000). Approaches to integrating IT in schools. (2000, Feb 28). *Computimes, New Straits Times*, p. 31.
- Philson, R. M. (1999). *Factors affecting academic collaboration via communication technologies*. Unpublished doctoral dissertation, The University of Michigan, USA.

- Prochaska, J. O., DiClemente, C. C., & Norcross, J. C. (1992). In search of how people change: Application to addictive behaviours. *American Psychologist*, 47 (9), 1102-1114.
- Providing IT-conducive environment in education. (1999, March 1). *Computimes New Straits Times*, p. 36.
- Rafaeku, S. (1986). The electronic bulletin board: A computer driven mass medium. *Computers and the Social Sciences*, (2), 123-136.
- Rafferty, R. (2002, September 29) Reinventing education for the future: School for industry. *The Sunday Star*, p.7.
- Ragavan, J. F. (1996). Schools to have more computers. *The Star*, p.4.
- Rahman, A. H. A. (2001). *The challenge of developing online learning environment in Malaysian schools: Learning environment program*. Research. presented at 2nd Annual Symposium on Online Learning (SOLE 2001). Putra World Trade Center, Kuala Lumpur, 14-18 June 2001.
- Ratcliff, D. (1995). *Validity and reliability in qualitative research*. Available: <http://www.don.ratcliff.aet/qual/validity/html> [1999, July 7].
- Ravitz, J. L (1999). *Conditions that facilitate teacher Internet use in schools with high Internet connectivity: A national survey*. Unpublished doctoral dissertation, University of Syracuse, USA.
- Raymond, C., & Anderson, C. (1987). Local area networks: Reaping the benefits. *Wilson Library Bulletin*, 21-24.
- Reed, W. M. (1990). The effect of computer and writing instruction on prospective English teachers' attitudes toward and perceived use of computers in writing instruction. *Journal of Research on Computing in Education*, 23 (1), 3-27.
- Rescam. (1986, November). Regional Seminar on Computers in Education Project. *Final Report*, 2.
- Reiber, L. P., & Weilver, P. W. (1989). Infusing Educational Technology into Mainstream Educational Computing. *International Journal of Instructional Media*, 16 (1), 21-32.
- Repp, P. C. (1996). Technology precipitates reflective teaching: The evolution of a red square. *Change*, 28 (2), 49, 56-57.
- Research Notes. (1995). *Choosing the right scale*. NCS Pearson.
- Ringstaff, C., Sandholtz, J. H. & Dwyer, D. C. (1991). *Trading places: When teachers utilize student expertise in technology-intensive classrooms*. Cupertino, CA: Apple Computer, Inc.

- Rivard, J. D. (1995). *Select topics on technology, teaching and learning*. Needham Heights, MA: Simon and Schuster Publishing.
- Roberts, N., & Ferris, A. (1998). Integrating technology into a teacher education program. *Journal of Technology and Teacher Education*, 2 (3), 215-225.
- Roberts, P. A. (1998). *Characteristics of early adopters using educational Internet networks*. Unpublished doctoral dissertation, Pepperdine University, USA.
- Roblyer, M. D., Edwards, J., & Havriluk, M. A. (1997). *Integrating educational technology into teaching*. New Jersey: Prentice Hall.
- Roblyer, M. D., & Barron, A. (1993). Technology in teacher education: A Florida study. In D. M. Carey & D. A. Willis (Eds.). *Technology and Teacher Education Annual*, 536-541. Charlottesville, VA: Association for the Advancement of Computing in Education.
- Roden, T. J. (2000). *Computer skills for pre-service teachers: Perceptions and implications for curriculum development*. Unpublished doctoral dissertation, Indian University at Pennsylvania, USA.
- Rogers, A. (1997). *The failure and promise of technology in education*. Initially retrieved March-May, 1997. Available: <http://www.gsn.org/teach/articles/promise.html>
- Rogers, E. M. (1983). *Diffusion of innovations*. (3rd. ed.). New York: The Free Press.
- Rogers, E. M. (1986). *Communication technology: The new media in society*. New York: Free Press.
- Rogers, E. M. (1995). *Diffusion of innovations*. (4th ed.). New York: The Free Press.
- Rogers, E. M., & Shoemaker, F. F. (1971). *Communication of innovations: A cross-cultural approach*. New York. The Free Press.
- Ropp, M. M. (1998). *Exploring individual characteristics associated with learning to use computers in pre-service teacher preparation*, 1 (4).
- Rosen, L. D., & Maguire, P. (1990). Myths and realities of computerphobia: A meta analysis. *Anxiety Research*, 3, 175-191.
- Ross, J. A., Gray, A. H., & Hannah, L. (1999). Predictors of teachers confidence in their ability to implement computer-based instruction. *Educational Computing Research*, 21 (1), 75-97.
- Rosman, G. B., & Rallis, S. F. (1998). *Learning in the field: An introduction to qualitative research*. Thousands Oaks, CA: Sage.

- Ruberg, L. F., & Miller, M. G. (1993). Moving from U.S. mail to e-mail. In *Art, Science and Visual Literacy*. Selected reading from the 24th annual conference of the international visual literacy association. Blacksburg, Va. Edited by Braden, R.A. Baca, J.C. and Beauchamp, D.G. 261-268.
- Rudy, S. A. R. (1997, March 22). Telekom perkenal TM school online. . [Telecom introduces TM School Online]. *Berita Harian*
- Russell, A. L. (1995). Stages in learning new technology: Naive adult e-mail users. *Journal of Computers and Education*, 25 (4), 173-178.
- Russet, J. (1995). Using telecommunications with pre-service teachers. *Journal of Computers in Mathematics and Science Teaching*, 14 (1/2), 65-75.
- Rutherford, L., & Grana, S. (1995). Attitudes and practices towards technology. *Technical Horizons in Education Journal*, 23 (2), 82-86.
- Ryan, G. W., & Benard, H. R. (1999). *Techniques to identify themes in qualitative data*. Article in "Methods for Conducting Systematic Text Analysis." Social Research Methods: Quantitative and Qualitative Methods. Available: <http://www.analytic.tech.com/mb870/ryon.html> [1999, July 26].
- Sanger, J., Wilson, J., Davis, B., & Whittaker, R. (1997). *Young children, videos and computer games*. Falmer Press, London.
- Santos, A. J. R. (1999). Cronbach's alpha: A tool for assessing the reliability of scales. *Journal of Extension*, 37 (2). Available: www.joe.org. [2002, October 11].
- Savage, T., Homes, B., & Tangney, B. (2000). *Innovation in learning in the information society: A comparative international study*. Dublin, Trinity College.
- Savenye, W. C., Davidson, G. V., & Orr, K. B. (1992). Effects on an educational computing course on pre-service teachers attitudes and anxiety towards computers. *Journal of Computing in Childhood Education*, 3 (5), 120-142.
- Scardamalia, M., & Bereiter, C. (April, 1996). Student communities for the advancement of knowledge. *Communications of the ACM*, 36-37.
- Schien, R. (1997). Resistance to change. In Kreitner, R., & Kinicki, A. (1997). *Organizational behavior*. McGraw Hill. Fourth Edition. New York..
- Scheffler, F. L., & Lagan, J. P. (1999). Computer technology in schools: What teachers should know and be able to do. *Journal of Research on Computing in Education*, 31 (3), 305-326.
- Secherest L., Fay, T.L., & Zaidi, S.M.H. (1972). Problems of translation in cross-cultural research. *Journal of Cross Cultural Psychology*, 3 (1), 41-56.

- Shanmugam, A. (1999). Pre-service teachers use of information technology practice and knowledge. *Cerana Journal*, 1-9.
- Shaw, M. L. G. (1994). Women, scholarship and information technology: A post modern perspective. *Transactions of the Royal Society of Canada*, 4 (5), 112-131.
- Sheingold, K. & Hadley, M. (September, 1990). Accomplished teachers: Integrating computers into the classroom practice. *Position Paper. Research/Technical Report*, 101 (3), 261-315. New York, NY: Center for Technology in Education.
- Shearman, A. (1997). How can the effective use of computing be promoted in classrooms? *Compute-Ed*, 3. Available: <http://computed.coe.wayne.edu/Vol 13./shearman.html> [2000, May 5].
- Sherry, L.C. (1998). *Diffusion of the Internet within a graduate school of education*. Unpublished doctoral dissertation, University of Colorado, USA.
- Sherry, L. C. (1999). *Using Internet to enhance standard based instruction*. Star Center Technology Team. Available: <http://www.denver.com/star/center/document/tassp.html> [2002, October 11].
- Sherry, L.C. (2002, in press). *Internet and WWW usage in an institution of higher education*. Available: <http://www.carbon.Cudenver.edu/~lsherry/pubs/maddux.html> [2001, November 26].
- Shunk, D. H. (1993). Self-efficiency and academic motivation. *Educational Psychologist*, 26 (3), 207-231.
- Sibley, R., & Odasz, F. (1999). *The Internet style of learning: Four levels of K-12 Internet integration*. Available: <http://www.thinkquest.org>. [2002, October 11].
- Siegel, J. (February, 1994). No computer know-how. *Electronic Learning*, 13 (5), 58.
- Siegel, J. (1995). The state of teacher training. *Electronic Learning*, 14 (8), 43-45, 48-50, 52-53.
- Silvin-Kachala, J. (1998). *Report on the effectiveness of technology in schools, 1990-1997*. New York: Software Publisher's Association.
- Skinner, M. E. (1998). Attitudes of College Students toward Computer-Assisted Instruction: An Essential Variable for Successful Implementation, *Educational Technology*, 28 (2), 7-15.
- Smart School Flagship Application. (1997). *The Malaysian smart school: A conceptual blueprint*. Ministry of Education, Malaysia.

- Smart School Boost. (1999). Project to be speedened up, broadened. *In Tech, The Star*, p.3.
- Smart Schools. (2001, November 6). Project team rebuts allegations. *In-Tech, The Star*, p. 6.
- Solomon, L. (1998). *Progress of technology in the schools: Report on 21 states*. Santa Monica, CA: Milken Exchange on Education Technology. Available at: <http://www.milkenexchange.org/publication.html> [1999, November 15].
- Staman, M. (1990). An action plan for infusing technology into the teaching and learning process, Cause Effect, 13 (2), 34-40 in Gonzales. C. L., & Thompson, V. (1998). Reciprocal mentoring in technology use: Reflecting with a literacy educator. *Journal of Information Technology for Teacher Education*, 7 (2), 163-178.
- Straus, C., & Quinn, N. (1997). *A cognitive theory of cultural meaning*. Cambridge: Cambridge University Press.
- Strauss, C. (1993). What makes Tony run? Schemes as motive reconsideration. In *Human Motives and Cultural Models*. R.D' Andrade and C. Strauss (eds.). 191-224. Cambridge: Cambridge University Press.
- Steinfeld, C. W. (1986). Computer-mediated communication in organizational settings: Explaining task-related and socio-emotional uses. *In Communication. Yearbook*, 9, 777-804. White Plains, NY.
- Sternberg, R. J. & Horvath, J.A. (1995). A prototype view of expert teaching. *Educational Researcher*, 24 (6), 9-17.
- Stiles, P., Jameson, A., & Lord, A. (1993). Teaching business ethics: An opening learning approach. *Management Education and Development*, 24 (3), 246-261.
- Stuhlmann, J.M. (1994). *Circumstances and experiences that lead to incorporating telecommunications into teaching practices*. Paper presented at the Annual Meeting of the American Educational Research Association. New Orleans, LA (ED. 374812).
- Sujo de Montes, L.E. (1998). *The use of Internet-based university courses as a tool for professional development of K-12 teachers*. Unpublished doctoral dissertation, New Mexico State University.
- Suh, S.S. (2000). *Factors affecting faculty members' use of Web-based instruction in higher education*. Unpublished doctoral dissertation, The Florida State University, USA.
- Sunal, C. S., Scheffler, A. J., & Sunal, D. (1993). Communication technology in the classroom: Exploring implications for teacher education: A case study. *Journal of Technology and Teacher Education*, 1 (3), 275-289.

- Surveys on Internet usage and population (1997). Available: <http://www.nua.ie/surveys/how-many-online/index.html> [2002, October 11].
- Swift, C. R. (1989). Audience activity in computer-mediated communication. *Dissertation Abstracts International*.
- Tan, J., & Wong, S. (1999). *The Internet as a learning tool: Planning perspectives*. The Singapore Experience.
- Tang, S.H. (1987). Keberkesanan aktiviti-aktiviti kesedaran dan kefahaman komputer di kalangan sekumpulan pelajar-pelajar sekolah menengah Malaysia. [The effectiveness of computer-based activities towards computer awareness and computer literacy level among Malaysian secondary students]. (A dissertation in partial fulfillment of the Master of Education). University of Malaya, Kuala Lumpur, Malaysia.
- Taylor, P. S. (1994). Teaching and learning with technology at the University West Florida. *Florida Technology in Education Quarterly*, 6 (3), 63-72. In Northrup, P.T., & Little, W. (1996). Establishing Instructional Technology Benchmarks for Teacher Preparation Programs. *Journal of Teacher Education*, 47(3), 213-222.
- Teacher Education Division Online (1999). Available: <http://www.moe.doe.my>. [2002, October 11].
- Teachers keep up with information technology (1995, November 3). *Metro, The Star*, p. 11.
- Tedesco, J. C. (1996). *Educational Innovation and Information*, 89, 1.
- Teh, A. G. K. (1998). *Perceptions of teachers and students on the use of the Net as a teaching and learning tool in the school*. (A dissertation in partial fulfillment of the Master of Education). University of Malaya, Kuala Lumpur, Malaysia.
- Teoh, P. Y. (1989). Literasi komputer di kalangan pelajar tingkatan empat. Satu tinjauan di kawasan Klang. [Computer Literacy level of Form IV pupils. A case study in the Klang District of Selangor]. (A dissertation in partial fulfillment of the Master of Education). University of Malaya, Kuala Lumpur, Malaysia.
- Teseolowski, D., & Roth, G. (1988). Identification and the verification of microcomputer competencies in vocational education. *Journal of Vocational Education Research*, 13 (1), 95-116.
- Thomas, D. (1996). *Schools tap into technology: Hooking up to information superhighway*. Initially retrieved March-May, 1997 from the World Wide Web: <http://www.ed.gov/PressReleases/05-1996/tech-hwy/html>.
- Thomas, L., Larson, A., Clift, R. T. & Levin, J. (1996). Integrating technology in teacher education programs: Lessons from the teaching teleapprenticeships Project. *Action in Teacher Education*, 17 (4), 1-8.

- Thompson J. C. (1998). *Concerns and usage of the internet by vocational education teachers in Idaho (high school teachers)*. ProQuest-Dissertation Abstracts: AAC 9914967.
- Three hundred trained to teach computer subject. (1992, March 23). *The Star*, p.5.
- Thurston, C.O., Secaras, E. D., & Levin, J.A. (1997). Teaching telearenticeships: An innovative model for integrating technology into teacher education. *Journal of Research On Computing in Education*, 29, (4).
- Tidd, R. R. (1994). Simulations for planning: one tool for re-engineering education. In H. Klein (Ed.), *The Art of Interactive Teaching*, (Boston, WACRA).
- Todd, R., Bome, A., Berry, C., Hacker, M., Hanson, R., Karsnitz, J., Radcliffe, D.X., Sanders, M., Ritz, J., & White, R. (1996). Teacher shortage and recruitment, a problem and an opportunity. *Tie*, 9 (3), 14-16.
- Tomei, L. A. (1997). *Instructional technology: Pedagogy for the future*. Boston.
- Toms, S. A. (1997). *Instructional use of the Internet: Stages of concern among faculty at the University of Florida*. Unpublished doctoral dissertation, University of Florida, USA.
- Topp, N. (1996). Year 1 evaluation of Nebraska's statewide plan: Connecting schools to Internet. *Computers in the Schools*, 2 (1-2), 115-129.
- Topp, N. W., & Mortensen, R., & Grandgenett. (1995). Building a technology-using faculty to facilitate technology-using teachers. *Journal of Computing in Teacher Education*, 11 (3), 11-14. SP524325.
- Triacoff, K. (1997). *The Internet in the classroom*. Initially retrieved March-May 1997 from <http://www.quest.arc.nosa.gov/top/bring.html>
- Turner, J. A. (1989). Teacher training colleges' slow move to computers blamed for schools' lag in integrating technology. *The Chronicle of Higher Education*, 35 (1), 9.
- United States Advisory Council on the National Information Infrastructure. (1995). *A nation of opportunity: Realizing the promise of the information super highway*. Washington D.C. (Eric No ED. 393473).
- U.S. Congress Office of Technology Assessment (OTA) (1995). *Teachers and technology: Making the connection* (OTA-HER-616). Washington, DC. U.S. Government Printing Office.
- U. S. Congress Office of Technology Assessment. (1998a). *Making the connection*, Washington DC. US Government Printing Office.
- U. S. Congress Office of Technology Assessment. (1998b). *Power on!* Washington DC. US Government Printing Office.

- U.S. Department of Education. (1999). *Internet access in public schools and classrooms: 1994-1998*. Office of Educational Research and Improvement.
- National Center for Education Statistics. (NCES). Available: <http://nces.ed.gov/pubs99/1999/017.html>].
- UNESCO. (1995). *International commission on education for the 21st century*. Paris.
- Utilizing the Internet for learning purposes. (1998, December 31). *New Straits Times*, p.20.
- Vedoe, L. C. (1995). *Select survey findings for the nation's elementary school teachers*. Half-moon Bay, CA: Tenth Planet Explorations Incorporation.
- Vital statistics. (1997, October 20). *Computimes, New Straits Times*, p. 1
- Wallace, P. R. (1998). *Diffusion of Internet adoption: A study of the relationship between innovativeness, the attitude of teachers toward using the Internet and Internet use*. Unpublished doctoral dissertation, University of Tennessee, USA.
- Wallace, R. M. (2000). *Teaching with the Internet. A conceptual framework for understanding the teacher's work and an empirical study of the work of the three high school science teachers*. Unpublished doctoral dissertation, University of Michigan, USA.
- Walsh, C. F. (1999). *How teachers use Internet in the classroom? A case study*. Available: <http://www.stanford.edu/~cwalsh/ED266X/final.html> [2002, January, 22].
- Walters, J. T. (1992, June). *Technology in the curriculum: The inclusion solution*. Paper presented at the National Forum of the Association of Independent Liberal Arts Colleges for Teacher Education, Louisville, KY. ED 350281
- Warwick, D. P., & Osherson, S. (1973). Comparative analysis in the social sciences. In D.P. Warwick and S. Osherson (eds.). *Comparing research methods: An overview*. Englewood Cliffs. N.J: Prentice Hall.
- Waight, M. L., & Rath, A. (1995). Teleapprenticeships in an elementary science method class: A description of students' network experiences. *Journal of Computers in Mathematics and Science Teaching*, 14 (1/2), 77-92.
- Web education offers accessibility. (1999, March 1). *Computimes, New Straits Times*, p.40.
- Weibe, J. (1995). The need to teach people about computers. *Journal of Computing in Teacher Education*, 11 (3), 2-3.

- Weil, M. M., & Rosen, L. (1997). *Techno Stress: Coping with technology at work, at home and at play*. New York: John Wiley & Sons, Inc.
- Weil, M.M., Rosen, C.D., & Wilgoiter, S.E. (1990). The etiology of computerphobia. *Computers in Human Behavior*.
- Weisberg, M., & Locatis, C. (April, 1996). Distributed learning environments in health sciences: Internet and the World Wide Web. Paper presented at the Fourth Conference on Distant Learning in Public Health, Houston. Quoted in Distributed Learning and the Internet. *Contemporary Education*, 68 (2), 100-103.
- Wellington, J. (2001). Exploring the secret garden: The growing importance of ICT in the home. *British Journal of Educational Technology*, 32 (2), 233-244.
- Wertheimer, R., & Zinga, M. (1997). *Attending noise: Applying chaos theory to social reform*. Paper presented at the 1997 Annual Conference of the American Educational Research Association. Available: <http://www.info.pps.pgh.pa.us/publications/articles/chaos/in.htm> [April 1997].
- Westermeier, L. J. (1998). *Teachers' computer literacy and student's use of computers in a large urban, unified school district*. Unpublished doctoral dissertation, University of Southern California, USA.
- Westfall, D. B. (1998). *A case study of teachers' understanding and use of the Internet as it relates to curriculum changes in a middle school*. Unpublished doctoral dissertation, University of South Carolina, USA.
- Whiteside, M. F., Lang, N. P., & Whiteside, J. A. (1989). Medical Students' Attitudes Towards the Use of Microcomputers in Instructional Tools, *Journal of Computer Based Instruction*, 16 (3), 90-94.
- Widmer, C., & Amburgey, V. (1994). Meeting technology guidelines for teacher preparation. *Journal of Computing in Teacher Education*, 10 (2), 12-17.
- Wilburg, K., & Carter, B. (1994). Thinking with computer. Part II, *The Computing Teacher*, 22 (2), 6-9.
- Wilkinson, L. (1997). An educator's journey to technical competency. In J. Willis, J.D. Price, S. McNeil, B. Robin & D. Willis (Eds.). *Technology and Teacher Education Annual*, 1997, 316-318. Charlottesville, VA : Association for the Advancement of Computing in Education.
- Williams, P. D. (1998). "Web Wanderings: Hyper nexus." *Journal of Hypermedia and Multimedia Studies*, 61, (2). Eugene.
- Williams, F. R. & Rogers, E. M. (1998). *Research methods and the new media*. New York. Free Press.

- Willis, J. (1993). What conditions encourage technology use? It depends on the context. *Computers in the School*, 9 (4), 13-32.
- Wise, A.E. (1997). President's message to NCATE Institutions, Board Members, Constituent Organizations and Friends. Quoted in National Council of Teacher Accreditation, (NCATE) (1997). Technology and the new professional teacher. Available: <http://www.ncate.org/accred/projects/tech/tech-21.htm>. www.ncate.org [2002, October 8]
- Witfelt, C., & Hansen, L. R. (1999). *Scientific report on identified technical-pedagogical competencies needed by teachers in order to fully exploit educational multimedia product's potentials and to enable them to give feedback and give recommendation to designers of educational multimedia*. Royal Danish School of Educational Studies, Copenhagen.
- Wong, S. L. (1998). *The Malaysia Internet Book*. Addison Wesley. Longman Singapore. Pte Ltd.
- Woodrow, J. E. J. (1991). A comparison of four attitude scales. *Journal of Educational Computing Research*, 17 (4), 165-187.
- Wu, S. M. (1998). Using newsgroup materials in the language class. *Guidelines: A Periodical for Classroom Language Teachers*, 20, (1).
- Yong, A. (1996a, March 19). Net access for 14 schools. *In Tech*, p.3
- Yong, A. (1996b, April 28). Linking schools to the Internet. *Sunday Star*, p. 28.
- Yong Soe Han. (1997). *Computer competency among form four students of a secondary school*. (A dissertation in partial fulfillment of the Master of Education). University of Malaya, Kuala Lumpur, Malaysia.
- York, K. J. (1998). *Efficacy of the WWW in K-12 environmental education*. Unpublished doctoral dissertation, Michigan State University, USA.
- Zhang, D. (1999). *Using the Internet for research: Factors that affect its adoption and utilization by doctoral students*. Unpublished doctoral dissertation, Texas A & M University of Commerce, USA.
- Zakari, M. I. (2000). *The uses of the Internet by Saudi graduate students in the US: The implications and potential benefit of the Internet for higher education in Saudi Arabia*. Unpublished doctoral dissertation, Kansas State University, USA.
- Zalina, Yahya. (1997, February 12). Sasaran BPG: Guru celik computer. [Target of Teacher Education Division: Computer competent teachers]. *Utusan Malaysia*, p. 23.
- Zenanko, M. (1996). *A survey of Internet access and usage in a selected sample of Northeast Alabama Schools, grades, 6,7,8*. Paper presented at the Annual Meeting of the Mid-South Educational Research Association. (ERIC Document Reproduction Service No. ED403873).

- Zhao, Y. (1995). Design for adoption. The development of an integrated web-based education environment. *Journal of Research on Computing in Education*, 30 (3), 308-327.
- Zhao, Y. et al. (2001). A comprehensive portrait of exemplary technology using teachers. *Journal of Computing in Teacher-Education*, 17 (2), 25-37.
- Zoraini Wati Abas. (1994). *Education in cyberspace via the Internet*. Paper for the Asian Education Technology Conference.
- Zoraini Wati Abas (1995). *Attitudes towards using computers among Malaysian teacher education students*. In J. D. Tinsely & T. J. Van Weert (Eds.). Proceedings of the sixth IFIP World Conference on Computers in Education, 158. London. U.K.
- Zoraini Wati Abas. (1997a, January 9). Added emphasis given to IT development. *Computimes, New Straits Times*, p.16.
- Zoraini Wati Abas. (1997b, January 9). Internet moves into our schools. *Computimes, New Straits Times*, p.29.
- Zoraini Wati Abas. (1997c, October 22). "Keep up with friends on-line." *New Straits Times*, p.10.
- Zoraini Wati Abas.. (1999, October 21). Internet dominates new educational era. *New Straits Times*, p.27.
- Zuhairi, M. (1994) Internet diperkenal. [Internet is introduced]. Utusan Malaysia, p.8.