

STAFF DEVELOPMENT PROGRAMME AND JOB PERFORMANCE IN KUALA MUDA/YAN

A project paper submitted to the Graduate School in partial fulfillment of the requirements for the degree of Master of Science (Management),

Universiti Utara Malaysia

by

May Khor Guat Sim

Copyright © May Khor Guat Sim, 1998. All rights reserved.



Sekolah Siswazah (Graduate School) Universiti Utara Malaysia

PERAKUAN KERJA KERTAS PROJEK (Certification of Project Paper)

Saya, yang bertandatangan, memperakukan bahawa (I, the undersigned, certify that)
MAY KHOR GUAT SIM
calon untuk Ijazah (candidate for the degree of) Sarjana Sains (Pengurusan)
telah mengemukakan kertas projek yang bertajuk (has presented his/her project paper of the following title)
STAFF DEVELOPMENT PROGRAMME AND JOB PERFORMANCE
IN KUALA MUDA/YAN
seperti yang tercatat di muka surat tajuk dan kulit kertas projek (as it appears on the title page and front cover of project paper)
bahawa kertas projek tersebut boleh diterima dari segi bentuk serta kandungan, dan meliputi bidang ilmu dengan memuaskan. (that the project paper acceptable in form and content, and that a satisfactory knowledge of the field is covered by the project paper).
Nama Penyelia (Name of Supervisor):Encik Abdul Halim bin Abdul Majid
Tandatangan (Signature):
Tarikh (Date) : 07 Hoy. 1998.

PERMISSION TO USE

In presenting this project paper in partial fulfillment of the requirements for a post graduate degree from Universiti Utara Malaysia, I agree that the University Library may make it freely available for inspection. I further agree that permission for copying of this project paper in any manner, in whole or in part, for scholarly purposes may be granted by my supervisor or, in his absence, by the Dean of the Graduate School. It is understood that any copying or publication or use of this project paper or parts thereof for financial gain shall not be allowed without my written permission. It is also understood that due recognition shall be given to me and to Universiti Utara Malaysia for any scholarly use which may be made of any material from my project paper.

Requests for permission to copy or to make other use of materials in this project paper, in whole or in part, should be addressed to;

Dean of Graduate School
Universiti Utara Malaysia
06010 UUM Sintok
Kedah Darul Aman

ABSTRAK

Kajian ini dijalankan untuk mengenalpasti persepsi guru sekolah menengah mengenai kesan program perkembangan staf ke atas prestasi kerja mereka. Seramai 322 responden dipilih secara rawak dari 10 buah sekolah di daerah Kuala Muda/Yan untuk mengambil bahagian dalam kajian ini Kajian ini dilakukan dengan menggunakan soal-selidik yang mempunyai 41 item. Keputusan kajian dianalisis dengan kaedah korelasi Pearson, ujian-t dan ANOVA sehala dalam SPSS. Analisis yang dijalankan menunjukkan hubungan yang sangat signifikan antara persepsi guru terhadap prestasi kerja guru dan program perkembangan staf. Namun demikian, hanya korelasi 0.6065 yang sederhana didapati antara persepsi mereka terhadap prestasi kerja dan program perkembangan staf. Prestasi kerja mungkin dipengaruhi oleh faktor lain seperti motivasi, keupayaan, persepsi peranan, ganjaran dan pengukuhan. Pergerakan gaji guru mengikut Sistem Saraan Baru mempunyai hubungan yang sangat signifikan dengan persepsi guru terhadap prestasi kerja dan program perkembangan staf. Persepsi guru terhadap prestasi kerja juga mempunyai hubungan yang sangat signifikan dengan bilangan latihan dalam perkhidmatan dan latihan dalaman yang dihadiri oleh guru. Kajian yang menggunakan ANOVA menunjukkan persepsi guru terhadap prestasi kerja dan program perkembangan staf mempunyai hubungan yang sangat signifikan dengan faktor jawatan. Walau bagaimana pun, persepsi guru terhadap prestasi kerja dan program perkembangan staf tidak mempunyai hubungan yang signifikan dengan faktor-faktor demografik jantina, umur, taraf perkahwinan, kelayakan Cadangan akademik dan tempoh perkhidmatan. untuk program perkembangan staf akan datang dan cadangan untuk kajian lanjutan dikemukan.

ABSTRACT

The purpose of this study is to investigate the perception of secondary school teachers on the effects of staff development programme on the their job performance. The study was carried out at 10 selected secondary schools in the Kuala Muda/Yan district in Kedah. 322 respondents were randomly chosen from the 10 selected schools to take part in the survey using a 41item questionnaire. The results of the survey were analysed using the Pearson correlation method, t-test and analysis of variance in SPSS. The analysis showed that there is very significant relationship between the perception of teachers on job performance and staff development. However, only a moderate correlation of 0.6065 was obtained between the perception of teachers on job performance and staff development programme. Job performance could be affected by other factors such as motivation, ability, traits, role perceptions, rewards and reinforcers. The salary movement in the New Remuneration System for government employees was found to be very significantly related to the perception of teachers on staff development programme and job performance. The perception of the teachers on their job performance and staff development programme were found to be significantly related to the number of inservice and in-house training programmes attended by the teachers. The results of the analysis of variance proved that the perception of staff development programme and job performance of the teachers were found to be very significantly related to the position held by the teachers. In contrast, it was found that the demographic factors of gender, age, marital status, academic qualifications and length of service have no effect on the teachers' perception of staff development programme nor job performance. Suggestions for future staff development programme and further study were proposed.

ACKNOWLEDGEMENTS

The writing of this research project has been made possible with the support and help I have received from my family, friends, lecturers and colleagues. The constant support, love and understanding from my husband, Philip and my three sons; Aaron, Arrol and Adriel have sustained me at the most difficult moments.

I would like to express my gratitude to my supervisor, Encik Abdul Halim bin Abdul Majid for his guidance, advice and suggestions for improvement. My deepest appreciation to Professor Madya Dr. Adel A. K. Yasseen for his guidance in the initial phase of the study. I would also like to convey my thanks to the administrators, lecturers and staff of the Graduate School for their support during the duration of the course. My thanks also to the administrators and staff of the schools where this study was conducted for their support and cooperation.

In conclusion, I would also like to place in my record my appreciation of the many others who have helped me but who I have been unable to mention due to the constraints of space.

TABLE OF CONTENTS

		Page
PER	RMISSION TO USE	İ
ABSTRACT (BAHASA MALAYSIA)		
ABS	TRACT (ENGLISH)	iii
ACK	NOWLEDGEMENTS	iv
TAB	LE OF CONTENT	v
LIST	OF ABBREVIATIONS	viii
LIST	OF TABLES	ix
LIST	OF FIGURES	×i
CHA	PTER ONE : INTRODUCTION	1
1.1	Background	1
1.2	Statement of Problem	6
1.3	Research Objectives	7
1.4	Research Questions and Hypotheses	8
1.5	Significance of the Study	11
1.6	Limitations of the Study	12
CHAI	PTER TWO: REVIEW OF RELATED LITERATURE	13
2.1	Definition of Learning	13
2.2	Theories of Learning	14
2.3	Theories of Adult Learning	16
2.4	Theoretical Orientations to Adult Learning	20
2.5	Theories of Motivation	23
2.6	Definition of Staff Development Programme and Job	26
	Performance	
2.7	Effects of Staff Development Programme on Teacher and	34
	Student Performance	
2.8	Reward Systems and Job Performance	42
2.9	Demographic factors and their effects on staff development	43
	programme and job performance	
2.10	Models For Staff Development	45

011			Page
CHA	APIERT	HREE: RESEARCH DESIGN AND	50
		METHODOLOGY	
3.1		odology	50
3.2	Resea	arch Conceptual Model	50
3.3	Opera	ational Definition	52
3.4	Popul	ation and Sampling Procedure	56
3.5	Resea	arch Instrumentation	59
3.6	Const	ruction of Questionnaire	60
3.7	Data (Collection	62
3.8	Data (Organisation and Presentation	63
CHA	PTER FO	OUR : DATA ANALYSIS	65
4.1	Introdi	uction	65
4.2	Descri	ptive Statistics	66
	4.2.1	Sample size and percentage return rate	66
	4.2.2	Perception of respondents towards staff	67
		development programme and job performance	0,
	4.2.3		69
	4.2.4	Number of training programmes	70
	4.2.5	Demographic factors	71
4.3	Inferen	tial statistics	75
	4.3.1	Relationship between job performance and staff	75
		development programme	70
	4.3.2	Relationship between variables and salary	76
		movement	70
	4.3.3	Job performance and number of training	70
		The training	79
	4.3.4		04
4.4	Summa	ary of findings from hypotheses testing	
	4.3.4	programmes Demographic factors	79 81
4.4	Summa	ary or findings from hypotheses testing	91

			Page
CHA	PTER FI	VE : DISCUSSION, CONCLUSION AND	93
		SUGGESTIONS	
5.1	Discus	sion of research findings	93
	5.1.1	Job performance and staff development	93
		programme	
	5.1.2	Variables and salary movement	95
	5.1.3	Job performance and number of training	96
		programmes	
	5.1.4	Demographic factors	98
5.2	Conclu	sion	105
5.3	Sugge	stions for future staff development programme	108
5.4	Sugge	stions for further study	109
BIBLI	IOGRAPI	HY	110
APPE	ENDICES	3	116
Appendix A:		Questionnaire in English	116
Appendix B:		Questionnaire in Malay Language	124
Appendix C: Pilot Test Reliability Analysis		Pilot Test Reliability Analysis	135
Appendix D:		Letter from researcher explaining nature of the	138
		study	
Appe	ndix E:	Letter from Universiti Utara Malaysia	139
Appendix F:		Letter of Approval from Educational Planning and	140
		Research Department (EPRD)	
Appei	ndix G:	Letter of Approval from Kedah State Education	142

LIST OF ABBREVIATIONS

H₀ Null hypothesis

H₁ Alternate hypothesis

INSET Inservice training and education

OECD Organisation of economic cooperation and development

HMI Her Majesty's Inspectorate

MCE Malaysian Certificate of education

SPM Sijil Pelajaran Malaysia

HSC Higher School Certificate

STPM Sijil Tinggi Pelajaran Malaysia

SS Secondary school

NSS National secondary school

NTSS National type secondary school

TESL Teaching of English as a second language

EPRD Educational Planning and Research Department

SPSS Statistical package for social sciences

ANOVA Analysis of variance

UNESCO United Nations Educational, Scientific and

Cultural Organisation

LIST OF TABLES

		Page
Table 3.1	List of secondary schools and number of secondary school teachers in Kuala Muda/Yan District in Kedah.	57
Table 3.2	Types and names of the schools chosen for the survey.	58
Table 3.3	Sample size from the selected schools.	59
Table 4.1	Sample size and percentage return rate from the selected schools.	65
Table 4.2	Data on the respondents perception of staff development programme.	66
Table 4.3	Data on the respondents perception of job performance.	67
Table 4.4	Salary movements of the respondents.	68
Table 4.5	Number of respondents according to the number of inservice training programmes attended.	69
Table 4.6	Number of respondents according to the number of in-house training programmes attended.	70
Table 4.7	Number of respondents according to gender.	70
Table 4.8	Number of respondents according to age.	71
Table 4.9	Number of respondents according to marital status.	72
Table 4.10	Number of respondents according to academic qualifications.	72
Table 4.11	Number of respondents according to highest position held.	73
Table 4.12	Number of respondents according to their length of service.	73
Table 4.13	ANOVA results of the hypothesis testing of staff development programme and salary movement.	76
Table 4.14	ANOVA results of the hypothesis testing of job performance and salary movement.	77

		Page
Table 4.15	ANOVA results of the hypothesis testing of job performance and number of inservice training attended.	78
Table 4.16	ANOVA results of the hypothesis testing of job performance and number of in-house training attended.	79
Table 4.17	Results of the t-test on gender	80
Table 4.18	ANOVA results of the hypothesis testing of job performance and age.	82
Table 4.19	ANOVA results of the hypothesis testing of staff development programme and age.	83
Table 4.20	ANOVA results of the hypothesis testing of job performance and academic qualifications.	84
Table 4.21	ANOVA results of the hypothesis testing of staff development programme and academic qualifications.	85
Table 4.22	ANOVA results of the hypothesis testing of job performance and position held.	86
Table 4.23	ANOVA results of the hypothesis testing of staff development programme and position held.	87
Table 4.24	ANOVA results of the hypothesis testing of job performance and length of service.	88
Table 4.25	ANOVA results of the hypothesis testing of staff development programme and length of service	89

LIST OF FIGURES

		Page
Figure 2.1	Four developments of school improvement	31
Figure 2.2	A model for continuing education	45
Figure 2.3	A model of teacher development	47
Figure 2.4	Triangle model of staff development	49
Figure 3.1	Research conceptual model	51

CHAPTER ONE

INTRODUCTION

1.1 Background

Staff development has recently become a vital part of education. The change in student population, together with the rise in public expectations of the schools, has caused a need for training teachers to meet new demands of today's education. Change is inevitable and necessary. Teachers need to change to keep abreast with the ever changing technology and needs of the increasingly diverse student population. There are also new challenges for teachers and teaching posed by the new information and communication technology. However, our educational practices have not kept pace with our increasingly complex society and technology.

In UNESCO's World Education Report 1998, UNESCO warns that the world's 57 million teachers lack the resources and support they need to work effectively. The 178-page report indicates that,

Despite growing recognition of the crucial role of education in national development, restrictive budgets in most countries are taking their toll on the quality of education. Pressure put on teachers to help improve students' results or "learning outcomes" has increased, while teachers' incomes and status have stagnated or even declined. As the outlines of our future "knowledge-based" society are forming, the majority of existing school buildings, even in the most developed countries, are not equipped to integrate new information and communication technologies.

The contents of the thesis is for internal user only

BIBLIOGRAPHY

- Agnew, J.L. and Redmon, W.K. (1992). Contingency specifying stimuli: The role of rules in organizational behavior management. *Journal of Organizational Behavior Management*, Vol. 12, No. 2, 1992. p.67-76.
- Bass, R. and Vaughan, J. (1966). *Training in industry: The management of learning*. Belmont, Calif.: Wadsworth. (In Bercher, H.J. (1988). Staff development in human service organizations. Englewood Cliffs, New Jersey: Prentice Hall.)
- Bell, B. and Gilbert, J. (1996). *Teacher development: A model from science education*. London: Falmer Press. p. 15-37.
- Bertcher, H.J. (1988). Staff development in human service organizations. Englewood Cliffs, New Jersey: Prentice Hall. p. 2-9
- Bolam, R., (1981). *OECD/CERI INSET project final report (Draft)*. (A report in Hopkins, D. (1986). Inservice training and educational development: An international survey. London: Croom Helm. p. 18-25)
 - Bradley, H.W. (1991). Staff development. London: Falmer. p. 12-13
- Burgess R.G and Galloway S. (1993). Does In-service education have an effect on classroom practice? (A volume in Burgess R.G. et al. (1993). Implementing in-service education and training. London: The Falmer Press.)
- Burgess R.G. et al. (1993). *Implementing in-service education and training*. London: The Falmer Press. p. 168-173.
- Cabinet committee education report. (1979). Kuala Lumpur: Ministry of Education, Malaysia.
- Churchill, L.R. (1994). The effects of perceived frequency of participation in joint activity on urban middle school teachers. [CD-ROM]. PHD, University of California. Abstract from: UMI: AAC 9517758 ProQuest, Dissertation Abstracts.
- Clinton, H.R. (1985). Teacher education: Of the teacher, by the teacher, and for the teacher. *Journal of teacher education*. Jan-Feb 1985. p.47-49.
- Corrigan, D. (1980). Synthesis report. (A report in Hopkins, D. (1986). Inservice training and educational development: An international survey. London: Croom Helm.) p. 105-106.
- Corrigan, D., Haberman, M. and Howey, K. (1979). An American point of view. (A report in Hopkins, D. (1986). Inservice training and educational development: An international survey. London:Croom elm.) p.112-124

- Covey, S. (1995, April). The principle of continuos learning. *Executive Excellence*: Provo.
- Craft, A. (1996). Continuing professional development, a practical guide for teachers and schools. London: Routledge.
- Crowther, F. and Gaffrey, M (1994). National educational priorities: A new challenge for professional development. *International Journal of Educational Management*, Vol. 8, No. 4. p. 11-15.
- Crowther, S. (1998, February). Secrets of staff development support. *Educational Leadership, Vol.55, No. 5.* p.75-76.
- Dean, J. (1991). *Professional development In school.* Milton Keyness: Open University Press.
- DES (1991). Report on the second year of the local education authority grant scheme by HMI, DES 53/91/NS. (In Burgess R.G. et al. (1993). Implementing in-service education and training. London: The Falmer Press.) p. 168.
- Dhamotharan, M. (1996). A model for continuing professional development provision for teachers in Malaysia. *Journal of Educational Research*, Vol. 17,1996. Education Faculty, University of Malaya.
- Ediger, M. (1995). Selected major goals for staff development in schools. *Education. Vol. 116, No. 2. Winter 1995*.
- Eraut, M., Pennycuick, D. and Radnor, H. (1988). *Local evaluation of INSET*. Bristol: NDCSMT. (In Craft, A. (1996). Continuing professional development, a practical guide for teachers and schools. London: Routledge.)
- Futchik, L.L.(1991). The relationship between staff development programs and teacher perceptions of change in their teaching behavior. [CD-ROM]. EDD, University of Southern California. Abstract from: UMI: Proquest, Dissertation Abstracts.
- Galen, M. (1993). Myths about older workers cost business plenty, *Business Week*, December 20,1993. (In Robbins, S. P. (1998). Organisational behavior concepts, controversies and applications, (8th ed.) Upper Saddle River, New Jersey: Prentice- Hall International, Inc.)
- Glatthorn, A.A. and Fox, L.E. (1996). Quality teaching through professional development. California: Corwin Press, Inc. p.6-12
- Haist, L. F. (1989). The relationship between staff development and participants' knowledge, attitudes and perceptions of effective schools. [CD-ROM]. EDD, University of New York at Buffalo. Abstract: UMI: AAC 8919353 ProQuest, Dissertation Abstracts.

- Hansen, D.J. (1993). The relationship between teachers' perceptions of staff development, career stage and job satisfaction. Ph.D., University of Minnesota. [UMI Dissertation services: 9324669]
- Heilman, A.W. (1966). Effects of an intensive inservice reading programme on teacher classroom behaviour and pupil reading achievement. *Reading Teacher*, 19, 622-26. (In Moburg, L. (1972). Inservice Teacher Training In Reading (pp.23-24). Newark: Delaware: International Reading Association.)
- Hopkins, D. (1986). *Inservice training and educational development:* An international survey. London: Croom Helm.
- Hornby, A. S. (1984). Oxford advanced learner's dictionary of current English. London: Oxford University Press.
- Howey, K.R. (1985). Six major functions of staff development: An expanded imperative. *Journal of teacher education*. Jan-Feb 1985.
- Isaac, S. and Michael, W.B. (1985). Handbook in research and evaluation. San Diego, California: EdiTS.
- Joyce, B. (1980). The ecology of professional development. London: Kegan Paul.
- Kelley, C. and Protsik, J. (1997, October). Risk and reward: perspectives on the implementation of kentucky's school-based performance award program. *Educational Administration Quarterly, Vol. 33, No. 4*, p.475-505.
- Knowles, M. (1984). *The adult learner: A neglected species* (3rd ed.). Englewood Cliffs, NJ: Prentice Hall. (In Glatthorn, A.A. and Fox, L.E. (1996). Quality teaching through professional development. California: Corwin Press, Inc.) p. 6-12.
- Levin, R.I. and Rubin D.S. (1998). Statistics for management. 7th ed. New Jersey: Prentice-Hall, Inc.
- Louden, W. (1991). Understanding teaching: Continuity and change in teachers' knowledge. New York: Teachers college press.
- Lovelace, K.A. (1992). Teacher behavior in the context of a continuum of teacher performance (supervision). [CD-ROM]. EDD, Wayne State University. Abstract from: UMI: AAC 9215117 ProQuest, Dissertation Abstracts.
- Luthans, F. (1995). *Organizational behavior*. 7th ed. New York: McGraw Hill, Inc.

Mallott, R.W. (1992). A theory of rule-governed behaviour management. *Journal of Organizational Behaviour Management*. Vol.12. No.2,1992. p.45-65.

March, J.K. et al. (1993). The long-term impact of a staff development program on student performance in an urban setting. [CD-ROM]. Paper presented at the Annual Meeting of the American Educational Research Association (Atlanta, GA, April 12-16, 1993). Abstract from: ERIC: ED361434.

Moburg, L., (1972). *Inservice Teacher Training In Reading*. Newark: Delaware: International Reading Association.

Morrill, K.A. (1966). A comparison of two methods of reading supervision. *Reading Teacher*, 19, 617-621. (In Moburg, L., (1972). Inservice teacher training in reading (pp.15-16). Newark: Delaware: International Reading Association.)

National Statistics 98. http://www.eprd.kpm.my/Ebil2.htm (23 July 1998)

National status study Malaysia (1981). Ministry of Education, Malaysia.

Newstrom, J.W. and Davies, K. (1993). Organizational behavior-human behavior at work (9th ed.). New York: McGraw-Hill, Inc.

Odden, A. and Protsik, J. (1995, September). Pay and motivation for teachers. Unpublished manuscript, Consortium for policy research in Education, University of Wisconsin-Madison. (In Kelley, C. and Protsik, J. (1997, October). Risk and reward: Perspectives on the implementation of Kentucky's school-based performance award program. Educational Administration Quarterly, Vol. 33, No. 4, 475-505.)

OECD/CERI (1978). Innovation, in-service education and training of teachers, practice and theory. Paris: OECD. (In Burgess R.G. et al. (1993). Implementing in-service education and training. London: The Falmer Press.) p.169.

Oldroyd, D. and Hall, V. (1991). *Managing staff development: a handbook for secondary schools*. London: Paul Chapman Publishing Ltd. p.2-6.

Ong, A.C.Y. (1993, November 25-27). Teacher improvement through staff development: problems and issues. Proceeding, Third national seminar on educational management. Genting Highlands: Institut Aminuddin Baki Institute. p. 154-158.

Ong, C. S. (1992). Effectiveness of the inservice training programme for secondary school principals at Aminuddin Baki Institute. M. Ed. Thesis, University of Malaya.

- Palaich, R. (1985). State actions to improve the teaching profession: What are the implications for teacher training? *Journal of Teacher Education*. *Jan-Feb* 1985.
- Pierce, D. and Hunsaker, T.W. (1996). Professional development for the teacher, of the teacher, and by the teacher. *Education, Vol. 117, No. 1*, p.101-105.
- Robbins, S. P. (1998). Organisational behavior concepts, controversies and applications, (8th ed.). Upper Saddle River, New Jersey: Prentice- Hall International, Inc.
- Rohani Ismail, (1995). The effects of staff development programme on job satisfaction and performance of teachers' training college lecturers in Northern Malaysia. M.Sc. Thesis, Northern University of Malaysia.
- Roscoe, J. T. (1975). Fundamental research statistics for the behavioral sciences, (2nd ed.) New York: Holt, Reinhart and Winston. (In Sekaran, U. (1992). Research methods for business, (2nd ed.). New York: John Wiley and Sons.)
- Sekaran, U. (1992). Research methods for business, (2nd ed.). New York: John Wiley and Sons.
- Seventh Malaysia Plan 1996-2000. (1996). Kuala Lumpur: Percetakan Nasional Malaysia Berhad.
- Shanmugam T. (1996). Effectiveness of inservice course for KBSM Basic Economics teachers. M. Ed. Thesis. University of Malaya.
- Smith, R. J. and Otto, W. (1972). Changing Teacher Attitudes Toward Teaching Reading in the Content Areas. *Journal of Reading*. (In Moburg, L., Inservice Teacher Training In Reading (pp.19-20). Newark: Delaware: International Reading Association.)
- Steers, R.M. and Porter, L.W. (1991). *Motivation and work behavior* (5th ed.). New York: McGraw-Hill, Inc. (In Newstrom, J.W. and Davies, K. (1993). Organizational Behavior-Human Behavior at Work (9th ed.). New York: McGraw-Hill, Inc.)
- Stern, J.V. (1989). Staff members as lifelong learners. [CD-ROM]. Oregon. Abstract from: ERIC: ED306997.
- Stone, D.L. (1991). An exploratory study of relationships of selected staff development programs and incentive pay to evaluation of teacher performance in elementary schools (Teacher evaluation). [CD-ROM]. EDD, University of Georgia. Abstract from: UMI: No. AAC 9133537 ProQuest, Dissertation Abstracts.

Sukumaran S. (1984). Commerce inservice courses in Peninsular Malaysia: Perception of some participants. M. Ed. Thesis, University of Malaya.

UNESCO's World education report 1998: Teachers and teaching in a changing world. (1998). http://unesco.uneb.edu/nnesco/educprog/wer/wer.htm (30 April 1998).

Valencia, S.W. and Killion J.P. (1989). Implementing research-based reading and writing programs overcoming obstacles to teacher change: Three case studies. Technical report No. 462. [CD-ROM]. Center for the study of reading, Illinois University. Abstract from: ERIC: ED305595.

Vaughan, E.D. et al. (1987). Implementing an innovative program: Staff development and teacher classroom performance. [CD-ROM]. Journal of Teacher Education, Vol. 38, No. 6 p. 40-47. Abstract from: ERIC: EJ371300.

Walsh-Cavazos, S. (1994). A study of the effects of a mathematics staff development module on teachers' and students' achievement. [CD-ROM]. EDD, Texas Tech. University. Abstract from: UMI: AAC 9517241 Proquest, Dissertation Abstracts.

Wan Azmi Ramli. (1984). *Latihan satu halacara profesional*. Petaling Jaya: Fajar Bakti.

Ward, B.A. (1985). Teacher development: The challenge of the future. Journal of Teacher Education. Jan-Feb 1985.

Weiss, J. (1991). The socialization process for first year teachers in an elementary school setting (Induction). [CD-ROM]. PHD, Stanford University. Abstract from: UMI: AAC 9206883 ProQuest, Dissertation Abstracts.

William, B.R. (1990). The development, implementation, and evaluation of a school-based project to improve achievement of fifth-grade students who have been retained. [CD-ROM]. EDD, University of Massachusetts. Abstract: UMI: AAC 9022759 Proquest, Dissertation Abstracts.

Yarger, S.J. and Mertens S.K. (1980). Testing the waters of school based teacher education. a volume in Concepts to Guide the teaching of teachers teachers edited by Corrigan D. and Howey, K. (In Hansen, D.J. (1993). The relationship between teachers' perceptions of staff development, career stage and job satisfaction. Ph.D., University of Minnesota. [UMI Dissertation services: 9324669]