

Seminar Kebangsaan kali ke IV

MAJLIS DEKAN PENDIDIKAN IPTA 2013

MEMACU PELAN TRANSFORMASI PENDIDIKAN



PROSIDING



23 - 25 September 2013

Universiti Islam Antarabangsa Malaysia (UIAM),
Gombak, Kuala Lumpur

ANJURAN :

Majlis Dekan Pendidikan IPTA Malaysia
dengan kerjasama Institut Pendidikan (INSTED), UIAM



Published by:

Institute of Education,
International Islamic University Malaysia,
P.O. Box 10,
50728 Kuala Lumpur,
MALAYSIA
Tel. : +6 03 - 6196 5331 / 5333
Fax. : +6 03 – 6196 4851

ISBN 978-967-12405-0-2



ISI KANDUNGAN

PENDAHULUAN

Yang Berhormat Dato' Seri Idris Bin Jusoh Menteri Pendidikan II, Malaysia	I
Prof. Dato' Sri Dr. Zaleha Kamaruddin Rektor, Universiti Islam Antarabangsa Malaysia	II
Prof. Dr. Rosnani Hashim Dekan, Institut Pendidikan, UIAM	III
Prof. Dato' Dr. Abdul Rashid Mohamed Pengerusi Majlis Dekan Pendidikan IPTA	IV
Prof. Madya Dr. Hairuddin Mohd Ali Pengerusi, Seminar Majlis Dekan Pendidikan IPTA Kali ke IV 2013	V

KERTAS KERJA

A Teacher Certification Program in Indonesia: Teachers' Perspectives ID #1 Bambang Sumintono, Nanang Bagus Subekti, Chairil Anwar Korompot, Hamdan Said	1 - 19
Tret Personaliti Pengetua Dan Guru Besar Novis Di Malaysia ID #3 Dr Shariffah Sebran Jamila Bt Syed Imam, Dr Mohameed Sani Hj Ibrahim, Prof. Madya Dr Mohd Izham Hamzah, Prof. Madya Dr Hairuddin Mohd Ali	20 – 31
Kaedah Fonik Dalam Mengajarkan Kemahiran Membaca Kanak-Kanak Prasekolah: Tinjauan Pelaksanaan Di Negara Brunei Darussalam ID #4 <i>Sutinah Hj Muhd Ali, Yahya Othman (PhD), Zamri Mahamod (PhD)</i>	32 - 50
Pemilihan Pelajar Sekolah Menengah Rendah Ke Aliran Sains ID #5 Aziz bin Nordin, Intan Bidayu binti Mohd Rafi, Nor Jamayah binti Daud	51 - 62
Amalan Pengajaran Guru Bahasa Melayu Berdasarkan Persepsi Murid ID #7 Abdul Rasid Jamian, PhD, Shamsudin Othman, PhD, Nor Syafiqah Mohd Zain	63 - 73
Exploring Malaysian University Students' Awareness of Green Computing ID #8 Tunku Badariah Tunku Ahmad, Abdullahi Bello, Mohamad Sahari Nordin	74 - 99
Transformasi Pembinaan Instrumen Kajian Terhadap Pengurusan Pengajaran Guru ID #11 Prof. Dr. Mohd Sahandri Gani Bin Hamzah, Prof. Madya Dr. Noor Shah Saad, Husni Zaim Khairun Nasri, Nur Nazurah Mat Yusof	100 - 113
Exemplary Post Graduate Programs in the Department of Arabic Language and Literature: Aspirations and Constraints DI #12 Muhamadul Bakir Hj. Yaakub, Nor Syarif Uwais	114 - 124

The Importance of Islamic literature curriculum: a perspective study on its relevance to contemporary social	125 - 138
ID #13 Muhamadul Bakir Hj. Yaakub, Musa Saeed Taha Idris	
Teaching Arabic language in Islamic schools for Non-Arab: a Singaporean perspective	139 - 154
ID #14 Muhamadul Bakir Hj. Yaakub, Siti Rafiah Muhamad Ramlan	
Amalan Pengajaran Guru KAFA Dalam Pelaksanaan Pembelajaran Kelas Fardhu Ain (KAFA) di Negeri Kedah Darul Aman	155 - 169
ID #15 Mohd Isha Awang, PhD, Yaakob Daud, Phd, Yahya Don, PhD, Abd Latif Kassim, PhD	
Principal's Instructional Leadership And Teachers' Work Place Well-Being : A Comparative And Relationship Study Between Sekolah Menengah Agama Bantuan Kerajaan And Sekolah Menengah Agama Rakyat	170 - 181
ID #16 Mohd Nor bin Jaafar Ph. D, Mohamad Haris bin Shakroni	
School Administrators' and Teachers' Level of Awareness, Interests and Practices in Learning Culture	182 - 199
ID #17 Normah binti Lin, Hairuddin bin Mohd Ali	
Assessing Preservice Teachers' Problem Solving Abilities: A Case Study	200 - 210
ID #18 Wun Thiam Yew, Sharifah Norul Akmar Syed Zamri, Lim Hooi Lian	
A Comparative Study of Self Efficacy between Public and Religious School Students	211 - 225
ID #19 Siti Salwa Bte Md. Sawari, Norwati Bt Mansor (Dr.)	
Pemahaman tentang Falsafah Ibadat dan Pengalaman Mengajar Ibadat dalam Kalangan Guru-guru Pendidikan Islam Sekolah Rendah	226 - 241
ID #21 Fathiyah bt Mohd Fakhruddin , Nor Hayati bt Alwi	
Wisdom in Teaching Profession as a Best Career Choice: An Introspective Analysis	242 - 243
ID #22 Ibrahim Ali Allafiaji, Siti Rafiah Abd Hamid, Sharifah Sariah Syed Hasan, Suhailah Hussein, Nik Md Saiful Azizi	
School Teachers' Time Management In Classroom.	249 - 263
ID #23 Nor Ildahayati Binti Ilias, Hairuddin Bin Ali	
Kepatuhan Pengurusan Kewangan Di Sekolah Menengah Kebangsaan Harian Di Negeri Kedah	269 - 283
ID #25 Dr. Norazlinda Saad, Dr. Surendran Sankaran	
The Role of <i>al-Murabbi</i> in Society: Some Religious Viewpoints	287 - 292
ID #26 Ahmad Nabil bin Amir	
Humanistic Language Teaching: An Alternative Approach To Improve Students' English Language Proficiency	293 - 326
ID #27 <i>FaraSyuhadabinti Mad Isa</i>	
The Gap Between Primary And Secondary Schools Teachers In Followership Style At Adni Islamic School, Malaysia	327 - 355

ID #28	Ahmad Suhail Al-Anshory, Hairuddin Mohd. Ali	
	Amalan Penaksiran Dinamik Berasaskan Kurikulum Dalam Pengajaran Kemahiran Menulis Karangan Argumentatif: Penelitian Terhadap Dua Orang Guru Bahasa Melayu Tingkatan Dua	356- 377
ID #30	Marzni Mohamed Mokhtar, Roselan Baki, Fadzilah Abd Rahman	
	Relationship between Secondary Schools Agriculture Teachers' Motivation and Use of Contextual Teaching	378 - 391
ID #32	Siti Shuhaidah Abdul Latir; Ramlah Hamzah, Ph.D.; Abdullah Mat Rashid, Ph.D.	
	Using CFA for the Alternative Quality Assurance Evaluation Model (QAEM) For National Universities Commission (NUC) of the Federal Republic of Nigeria	392 - 417
ID #33	Bojuwon Yusuf Bolaji, Hairuddin Bin Mohds Ali	
	Persepsi Guru Terhadap Perlaksanaan Penilaian Prestasi dengan Komitmen Kerja dan Tahap Motivasi Guru	418 - 448
ID #34	Abdul Said Ambotang dan Susie Ivangella @ Doivit	
	Amalan pengurusan sumber manusia dan hubungannya dengan prestasi kerja dalam kalangan penolong pendaftar: kajian di Universiti Teknologi MARA	449 - 457
ID #35	Mohd Zahurin Ramli dan Norshidah Nordin	
	Pengaruh Dimensi Kepimpinan Instruksional Pengetua Terhadap Komitmen Kerja Guru di Sabah	458 - 472
ID #36	Muhamad Suhaimi bin Taat, Phd	
	Kemahiran Untuk Pekerjaan: Kajian <i>Grounded Theory</i> Sistem Latihan Perantisan Moden	473 - 447
ID #37	Ridzwan Che Rus, Ruhizan Mohamad Yasin	
	Pengaruh Kepimpinan Pengetua Ke Atas Amalan Prinsip-Prinsip Pengurusan Kualiti Menyeluruh (TQM)	448 - 488
ID #38	Rosnani Binti Kaman, Ishak Bin Sin, PhD, Abdull Sukor Bin Shaari, PhD, Hairudin Mohd Ali, PhD	
	Perbandingan Iklim Sekolah Antara Maktab Rendah Sains MARA	489 - 503
ID #41	Mohd Mahadzir Rahimi Bin Mohamed Nawi, Zulaine Bin Awang Taul, Dewi Isma Madzlan Bin Mazlan, Khalid Bin Johari	
	The Socioemotional Experiences of UAT's (UAT) During Teaching Practice: A Case of Reality Shock?	504- 529
ID #42	<i>Mohd Hasani Dali</i>	
	Pendidikan Berkualiti Melalui Pembelajaran Komuniti Lesson Study	530 - 539
ID #43	Zanaton H. Iksan	
	Pelaksanaan Pentaksiran Berasaskan Sekolah (Pbs) Dalam Kalangan Murid Bagi Mata Pelajaran Kemahiran Hidup Bersepadu	540 - 556
ID #44	Asnul Dahar Minghat, Mohd Saifulrizal Abd Manaf & Muhammad Khair Noordin	

Memartabatkan Pendidikan Vokasional: Kesedaran Terhadap Peluang Melanjutkan Pengajian ke ILV dalam Kalangan Pelajar SMV di Negeri Johor	557 - 567
ID #45 Noorazman, Razali Hassan, & Daziemah Daud	
Pelaksanaan Intervensi Cerita Sosial Oleh Guru Pendidikan Khas Dalam Meningkatkan Kemahiran Sosial Kanak-Kanak Autistik	568 - 610
ID #46 Siti Hodijah Bt Zamakshshari, Dr. Rosadah Bt Abdul Majid	
Islamic Integrated Curriculum (IIC) For The Transformation Of Islamic Education System In Malaysia	611 - 629
ID #47 Rahimah Embong, <u>Rosnani Hashim</u> , Yulsaini Yunus	
Amalan Kurikulum Bersepadu Dan Transformasi Pendidikan Di Malaysia	630 - 652
ID #48 Rahimah Embong, Wan Ismail Wan Abdullah, Normila Noruddin	
Pengurusan Berpasukan dan Budaya Kerja Guru Di Sekolah-sekolah Menengah Negeri Perlis	653 - 666
ID #49 Prof. Madya Dr. Tang Keow Ngang, Ooi Phaik Choo	
Pedagogi Berasaskan Pembelajaran Aktif dalam Amalan Pedagogi Rasulullah SAW	667 - 675
ID #50 Nooraida Yaakob, Rabiatul-Adawiah Ahmad Rashid	
Efikasi Pengajaran Guru: Perbandingan Di Antara Guru Dalam Perkhidmatan Dan Guru Pelatih	676 - 687
ID #51 Ahmad Zamri bin Khairani	
Kesan Keadilan Prosedur Sebagai Moderator antara Kesukaran Matlamat Dengan Komitmen Guru Kepada Sekolah	688 - 701
ID #52 Abdul Jalil Ali, PhD, Subarino	
Program 2Bs: Penerapan Dan Kesedaran Nilai-Nilai Universal Dan Pengetahuan Tentang Tingkah Laku Buli untuk Menangani Kejadian Buli Di Sekolah	702 - 710
ID #54 Jamalsafri Saibon, Abdul Jalil Ali, Syed Mohamad Syed Abdullah & Adawiah Abdul Rasyid	
Amalan Organisasi Pembelajaran dan Komuniti Pembelajaran Profesional Di Sekolah-Sekolah Berbeza Pencapaian Di Pulau Pinang	711 - 728
ID #56 Aziah Ismail, PhD, Najdah Baharom, Abdul Ghani Kanesan Abdullah, PhD	
Faktor-Faktor Yang Mempengaruhi Tahap Kesediaan Guru-Guru Tingkatan Satu Sekolah Menengah Dalam Pelaksanaan Penilaian Berasaskan Sekolah (PBS)	729 - 769
ID #58 Zuridah Hanim bt Md. Akhir, Cik Fatimah Nadia bt Che Hasnam, Mohd Sofian Omar-Fauzee, Yaakob Daud, Yahya Don, Abd Latif Kassim, Rozita Abd Latif, Nagoor Meera Abdullah	
Ideal Vs. Reality: Evidences From Senior Teachers' Experiences On The Malaysian School-Based Assessment System (SBA)	770 - 781
ID #61 Che Noraini Hashim, Adlina Ariffin, Nurhidayah Muhammad Hashim	

Do You Teach The Way You Were Taught? Graduate Teachers' Perceptions Of Their Undergraduate Teacher Preparation At The University	782 - 803
ID #62 Mwembesa Umar, Sharifah Sariah Syed Hassan, Che Noraini Hashim, Abdul Shakour Duncan Preece	
Animasi Interaktif Masa Depan, Pembelajaran Personal (Ple) Anak Orang Asli: Satu Kajian Fuzzy Delphi	804 - 826
ID #65 Mohamad Muhidin Patahol Wasli; Nur Azyma Ismail; Mimi Faizura Mohamad; Saedah Siraj; Zahra Naimie; Zaharah Hussin	
The Malaysian Education Blueprint(PPPM) 2013-2025: Unity Among Students	827 - 846
ID #66 Prof. Dr. Rosnani Hashim, Wirawani binti Kamarulzaman	
Sexual Harassment in The Workplace Environment: Psychological Impact To The Women	847 - 856
ID #67 Kamarulzaman Hj. Mohd. Jidi, Husin Junoh, Wan Azlinda Wan Mohamed, Warman, Nur Zakiah Hani Kamarulzaman	
Predicting English Oral Communication Skills Of Engineering Students From Usage Frequency And Self-Confidence Level	857 - 874
ID #68 <i>Maizam Alias, Nor Azura Osman, Marlina Mohamad</i>	
Kajian Kualiti Persekitaran Dalam Terhadap Reka Bentuk Studio Lukisan Kejuruteraan Ideal Di Sekolah Menengah Teknik	875 - 883
ID #69 Mohd Hanif Bin A Karim, <i>Azman bin Hasan</i> , Jamil Bin Abd Baser	
Pemeriksaan Kompetensi K-Pekerja Di Malaysia Menggunakan Pendekatan Pendidikan Integrasi Holistik; Penyepaduan Ilmu Wahyu (<i>Revealed Knowledge</i>) Dalam Sistem Latihan Dual Nasional (SLDN)	884 - 877
ID #70 Jailani bin Md. Yunos , Akhmal Annas bin Hasmori	
Tahap Kemahiran Profesional Guru-Guru Kemahiran Hidup Bersepadu Dalam Pelaksanaan Pentaksiran Berasaskan Sekolah (PBS)	878 - 905
ID #71 <i>Jamil Abd Baser, Azman Hasan, Rasidayanty Saidon, Noorazman Abd Samad, Khairuddin Harun, Ramlan Zainal Abidin</i>	
Strategies for Managing Stress for Optimal Job Performance	906 - 920
ID #72 Kamarulzaman Hj. Mohd. Jidi, Husin Junoh. Nur Zakiah Hani Kamarulzaman	
Importance Of Communication In Developing Performance Organization Of A Point Of View As Manager	921 - 927
ID #73 Kamarulzaman Hj. Mohd. Jidi, Husin Junoh, Sapon Ibrahim, Suraya Kamarulzaman	
Menentukan Faktor-Faktor Pemilihan Kerjaya Perguruan Dalam Kalangan Pelajar Sarjana Pendidikan Teknik Dan Vokasional Di UTHM	928 - 941
ID #74 Azman Hasan, Jamil Abd Baser, Noraliza Rajibi, Noorazman Abd Samad, Khairuddin Harun, Ramlan Zainal Abidin	
If You Think PBL Is Right for Your Students, Think Again.	942 - 956
ID #75 Lai Chee Sern, Razali Hassan, Kamarulzaman Hj. Jidi, Lee Ming Foong, Johnson Lim Soon Chong	

Interaksi dalam modul Sains mPembelajaran Kolaboratif (CmL): Implikasi kepada pembangunan pengetahuan	957 - 934
ID #76 Dorothy DeWitt, Saedah Siraj and Norlidah Alias	
Pendidikan Alternatif <i>Homeschooling</i> bagi kanak-kanak Orang Asli : Analisis Keperluan	935 - 1001
ID #78 Mohd. Nazri Abdul Rahman ,Norlidah Alias, Saedah Siraj & Dorothy Dewitt ^a ,	
Future Trends in the Management of School Finance	1002 - 1032
ID #79 Husaina Banu Kenayathulla	
Memperkasa Nilai Paling Utama Dan Memperkasa Nilai Interaktif Dalam Pendidikan UIAM	1033 - 1037
Prof. Dato' Dr. Sidek Baba	
Merealisasikan Penempatan Kepimpinan Berprestasi Tinggi Di Setiap Sekolah UM	1038 - 1094
Saedah Siraj, Mohammed Sani Ibrahim	
Better Teaching of Thinking Skills: Calling for an Academic Resilience Model of Malaysian Students	1095 - 1126
USM Shahabuddin Hashim, Seffetullah Kuldas, and Mohd Ali Samsudin	
Memacu Pelan Transformasi Pendidikan: Peranan IPTA Dalam Membantu Meningkatkan Kuantiti Dan Kualiti Pendidikan Aliran Sains Dan Teknikal Di Malaysia UTHM	1127 - 1142
Razali Hassan , Halizah Awang , Badaruddin Ibrahim , Siti Hajar Zakariah	
Teachers' Perception on Language Proficiency of Secondary School Students and Factors Contributing to Proficiency	1143 - 1167
UTM Mohd Salleh Abu, Zainal Abidin Zainuddin, Yeo Kee Jiar, Lu Xi, Azlina Mohd Kosnin	
Keperluan Penggunaan Modul Etika Kerja Guru dalam Membentuk Penghayatan Nilai Pelajar	1168 - 1186
UUM Prof. Madya Dr. Mohd Izam Ghazali, Dr. Mohamad Khairi Haji Othman, Alis Puteh, Dr. Mohd. Zailani Mohd Yusoff , Prof. Madya Dr. Fauziah Abdul Rahim	
Teacher Employment And The Open Market Saga Opportunity Beholds The New Breed Of Teachers And Hybrid Professionalism	1187 - 1195
MEDC Abdul Rashid Mohamed	
Accelerating Knowledge Production in East Asia: Implications for Strategic Research Development in Malaysian Universities	1196 - 1211
UCAP- Professor Philip Hallinger	
TAMA	



Bidang pendidikan dianggap faktor kritikal kejayaan dalam rangka kita hendak mencapai status negara maju dengan rakyatnya berpendapatan tinggi menjelang 2020. Ia merupakan penyumbang utama pembangunan modal insan dan ekonomi negara. Lantas bidang pendidikan diletakkan sebagai satu elemen penting transformasi dalam GTP dan ETP. Sebagai satu perancangan terancang kerajaan, ia bersifat inklusif yang merangkumi pelbagai bidang dan tahap pendidikan seperti pra-sekolah, sekolah rendah dan menengah, pra-universiti, kolej vokasional/politeknik, dan pendidikan di universiti. Pelancaran Pelan Pembangunan Pendidikan 2013–2025 ialah pernyataan jelas tekad kerajaan ke arah matlamat Malaysia pada alaf baru.

Melalui transformasi pendidikan diharap penambahbaikan drastik pendidikan tercapai dalam masa 12 tahun akan datang agar sistem pendidikan kita antara yang terbaik di dunia menjelang 2025. Pada ketika ini kita harap dapat melahirkan generasi muda yakni golongan modal insan alaf baru dari segi pegangan agamanya yang mantap, beretika, mahir dan cekap dalam pelbagai kerjaya, pengamal IT dalam segala urusan kerja dan komunikasi, berfikiran kreatif dan inovatif, tegas dan efektif dalam kepimpinan dan membuat keputusan serta bersifat patriotik terhadap negara kita Malaysia.

Saya ingin mengucapkan terima kasih dan setinggi-tinggi penghargaan kepada pihak penganjur iaitu Majlis Dekan Pendidikan IPTA istimewanya Universiti Islam Antarabangsa Malaysia selaku tuan rumah. Terima kasih kerana menjemput saya. Di kesempatan ini juga, saya ingin mengalu-alukan kehadiran semua pihak ke seminar ini dan berharap perjumpaan kita dapat memperkukuhkan silaturahim sesama kita serta dapat mencapai objektif-objektif seminar ini. Insya Allah.

Yang Berhormat Dato' Seri Idris Bin Jusoh
Menteri Pendidikan II



Pendidikan ialah jantung pembangunan ummah. Matlamat pendidikan adalah untuk melahirkan insan yang boleh meningkatkan kualiti diri dan memberi sumbangan yang positif untuk komuniti, masyarakat dan negara. Melalui pendidikan yang holistik generasi muda dipupuk dan dibimbing agar mencapai kecemerlangan dalam mencari makna ihsan yang hakiki.

Pelan Pembangunan Pendidikan Malaysia 2013-2025 ialah dokumen Kementerian Pendidikan Malaysia yang dihasilkan secara teliti dan professional untuk mencapai taraf pendidikan yang unggul dan terbaik bagi Malaysia pada hari muka.

Salah satu peranan pendidikan adalah untuk menyelesaikan masalah. Dalam pendidikan, kita hadapi apa yang kita tahu, bagaimana nak tahu dan bagaimana menangani apa yang kita telah tahu.

Bagaimanapun pendidikan diperingkat global kian berubah secara dinamik kerana proses pendidikan itu sendiri bersifat malar dan “constant.” Oleh yang demikian pendidikan perlu bersifat tranformatif untuk menangani perubahan.

Transformasi bukanlah satu fenomena atau perancangan manusia yang asing dalam ajaran Islam dan kehidupan ummat manusia.

Diharap seminar ini memberi impak kepada transformasi pendidikan negara ini yang sedang menuju negara maju menjelang tahun 2020.

Prof. Dato' Sri Dr. Zaleha Kamaruddin

Rektor, Universiti Islam Antarabangsa Malaysia (UIAM)



Proses globalisasi sangat ketara mempengaruhi sistem pendidikan sejagat masa kini dari pelbagai sudut – bahasa pengantar sekolah-sekolah dengan Bahasa Inggeris sebagai bahasa antarabangsa, penggunaan teknologi maklumat dalam pendidikan, kepentingan kemahiran insaniah, dan ranking sejagat antara institusi-institusi pendidikan tinggi di dalam mahupun di luar negara. Sudah tentu setiap negara perlu berhadapan dengan arus perubahan ini untuk terus relevan. Justeru perlulah digembeleng segala tenaga dan buah fikiran bagi menghasilkan satu pelan pendidikan yang mampu mengatasi pengaruh negatif globalisasi dan seterusnya memacu kearah transformasi pendidikan negara secara menyeluruh dengan cekap dan berkesan. Dalam konteks negara kita, Pelan Pembangunan Pendidikan Malaysia (PPPM) (2013-25) telah pun dirangka dan harus dilaksanakan dalam tiga gelombang. Gelombang pertama telah pun bermula dan terdapat beberapa isu yang harus ditangani bagi kelicinan pelaksanaan. Maka atas kesedaran inilah tema “Memacu Pelan Transformasi Pendidikan” dipilih.

Seminar Kebangsaan Majlis Dekan Pendidikan Malaysia (MDPM) yang Ke-4 merupakan satu platform atau medan bagi para sarjana, cendekiawan, pendidik dan pembuat dasar pendidikan seluruh negara membedah dan memeriksa PPPM (2013-25) supaya dapat memperkemas dan memastikan pelaksanaannya yang lebih berkesan. Moga-moga seminar ini akan dapat menghasilkan beberapa resolusi berbentuk strategi penyelesaian terhadap isu-isu yang menghalang kelicinan dan keberkesanan pelaksanaan PPPM di samping membantu mendalami pemahaman para hadirin tentang isu pendidikan negara.

Saya mengalu-alukan kehadiran semua peserta yang berhimpun dalam seminar yang ke-4 ini. Semoga Seminar Kebangsaan MDPM 2013 ini dapat memperkaya dan menggugah akal dan rohani semua yang hadir.

Akhir kalam, saya ingin mengucapkan jutaan terima kasih kepada semua Pengucaputama, ahli MDPM, pembentang kertas kerja, peserta dari pelbagai jabatan, agensi dan institusi dan khususnya kepada Pengerusi dan Ahli Jawatankuasa Seminar Kebangsaan MDPM yang begitu komited untuk memastikan kejayaan seminar ini. Semoga semua usaha ini akan diterima oleh Allah S.W.T. sebagai amal jariah kita.

Sekian. Terima kasih.

Prof Rosnani Hashim
Dekan,
Institusi Pendidikan, UIAM



Ingin saya mengucapkan ribuan terima kasih kerana diberikan kesempatan untuk memberi kata-kata aluan untuk buku program Seminar Kebangsaan Majlis Dekan Pendidikan IPTA 2013.

Pada kali ini, Majlis Dekan Pendidikan IPTA dengan kerjasama Institut Pendidikan UIAM (INSTED) telah berusaha untuk menganjurkan Seminar Kebangsaan Majlis Dekan Pendidikan IPTA 2013 (MEDC 2013) dengan temanya “Memacu Pelan Transformasi Pendidikan Negara”. Saya berpendapat tema ini sangat ber-sesuaian dengan agenda transformasi pendidikan negara di mana adalah menjadi matlamat akhir kita bahawa sistem pendidikan negara akan menjelma standing dengan negara-negara maju tetapi berasaskan acuan kita tersendiri. Sebagai pengerusi Majlis Dekan Pendidikan IPTA semasa, saya sangat-sangatlah berharap semua kertas kerja yang dibentangkan akan menghasilkan dapatan-dapatan dan idea-idea baru yang mampu membantu secara efisien melonjak transformasi pendidikan negara ke arah yang di tetapkan sebagaimana dalam Pelan Pembangunan Pendidikan Malaysia 2013-2025.

Seterusnya, ingin saya mengucapkan ribuan terima kasih kepada INSTED, UIAM amnya dan ahli Jawatankuasa penganjur seminar kebangsaan ini yang telah bertungkus-lumus untuk menjayakan seminar ini. Akhir sekali, saya juga mengalu-alukan kedatangan semua pembentang dan peserta seminar kerana tanpa tuan-tuan dan puan-puan sekalian seminar ini tidak akan menjadi kenyataan.

Terima kasih.

Prof. Dato' Dr. Abdul Rashid Mohamed
Pengerusi Majlis Dekan Pendidikan IPTA
Pusat Pengajian Ilmu Pendidikan
Universiti Sains Malaysia.



Sukacitanya ingin saya mengucapkan ribuan terima kasih kepada Dekan Institut Pendidikan (INSTED), IIUM kerana telah menaruh kepercayaan serta keyakinan kepada saya sebagai pengerusi Seminar Kebangsaan Majlis Dekan Pendidikan IPTA 2013 Kali ke IV (MEDC 2013). Di samping itu juga, ingin saya mengucapkan ribuan terima kasih kerana diberi kesempatan untuk menukikan sepatah dua kata dalam buku program seminar ini.

Sebagaimana maklum, objektif Majlis Dekan Pendidikan IPTA (dengan kerjasama INSTED) mengadakan seminar kebangsaan ini antara lainnya adalah untuk menyediakan satu platform dalam usaha menjana idea-idea yang berkesan bagi memperkemas dan memastikan pelaksanaan secara berkesan pelan transformasi pendidikan negara.

Untuk memperincikan lagi objektif di atas, maka tema seminar pada tahun 2013 ini adalah “Memacu Pelan Transformasi Pendidikan”. Tema ini mampu memandu para sarjana dan penyelidik memfokuskan pembentangan mereka berdasarkan lima sub-tema seperti berikut:

- Kesamarataan akses kepada pendidikan berkualiti bertaraf antarabangsa,
- Profisiensi dalam Bahasa Malaysia dan Bahasa Inggeris bagi setiap murid,
- Melahirkan rakyat Malaysia dengan penghayatan nilai-nilai Islam dan universal,
- Transformasi keguruan sebagai profesion pilihan dan
- Merealisasikan penempatan kepimpinan berprestasi tinggi di setiap sekolah.

Sebagai pengerusi seminar kebangsaan tahun ini, adalah menjadi harapan Majlis Dekan Pendidikan IPTA supaya seminar ini dapat membuahkan hasil demi faedah ummah dalam jangka masa yang panjang. Sukacita juga saya mengucapkan selamat berseminar di Universiti Islam Antarabangsa Malaysia (UIAM) “Garden of Knowledge and Virtue”. Sebelum mengundur diri, izinkan saya menyusun sepuluh jari memohon ribuan maaf bagi pihak diri saya serta rakan-rakan lain dalam jawatankuasa seminar jika terdapatnya sebarang kekurangan dalam pengurusan perjalanan seminar ini. Yang buruk dan lemah itu adalah datangnya daripada kami dan yang terbaik itu adalah datangnya daripada Yang Maha Pencipta, Allah Subhanahuwataala.

Terima kasih.

Prof. Madya Dr. Hairuddin Mohd Ali

Pengerusi

Seminar Majlis Dekan Pendidikan IPTA 2013 (MEDC2013)

School Administrators' and Teachers' Level of Awareness, Interests and Practices in Learning Culture

Normah binti Lin

Hairuddin bin Mohd Ali

Institute of Education

International Islamic University Malaysia

ABSTRACT

Learning culture in school plays a vital role in boosting learning to students. School administrators and teachers are the front line who facilitates the school with learning culture. This study aims to evaluate the level of awareness, interests and practices between school administrators and teachers in promoting learning culture in school. A cross-sectional survey design was conducted in four schools and data were collected from 210 respondents. Specifically, the study focused on teachers in Kuala Lumpur and they were asked about learning culture. A questionnaire with 41 items (excluding demographic questions) was designed. Each respondent is requested to indicate his experience and perceptions on learning culture using DLOQ instrument. It was indicated that these variables are statistically significant and there are correlation between level of interests, awareness and practices. At school level, it is found that the age of respondents strongly influence the learning culture. Finally, correlation among the level of awareness, interests and practices in learning culture was identified. The finding presents an original study which examined the school administrators' and teachers' level of awareness, interests and practices towards learning culture in school. Implications and recommendations for future improvement of learning culture were channeled to the appropriate authorities.

Keywords: Learning culture, awareness, interests and practices.

Introduction

Humans start to learn since they are born. Levitt and March (1998), mentioned that learning is the process that spans the discovery, retention and exploitation of knowledge stored; it takes knowledge as an input and generates new knowledge as an output. This is supported by Senge *et al.* (1994) that learning is analysed as the process by which knowledge, abilities and attitudes are brought together to achieve permanent changes in conduct, as the product of a specific practice or significant experience. Schein (1996) also stressed that learning is, at its heart, a complex and difficult process—a source of joy when it works but a source of pain and tension when it does not.

Organizations learn and adapt mainly through the interaction of the individuals within them, benefiting from increased individual understanding which translates into change in organizational behavior (Argyris & Schon, 1978; Senge, 1990).

General Conceptual Framework of the study

The study focuses on the successful learning organization will effect to the students' performance. A learning organization is an organization skilled at creating, acquiring and transferring knowledge, and at modifying its behaviour to reflect new knowledge and insights (Garvin, 1993). Also Dodgson (1993) suggests that an organization's uniqueness can be defined by its knowledge bases and the

processes of acquisition, articulation, and enhancement of the knowledge over which it has control. The theory applied here is to

focus on how learning organization will effect to the students' performance.

Figure 1
General

Conceptual

Framework

of

the

Study



Source: Adapted from Senge, (2000), pp 327.

Kerka (1995) supported that learning is valuable, continuous, and most effective when shared and that every experience is an opportunity to learn. The figure above explains that learning organization (domain of action) will affect students' performance (domain of enduring change) since people in the school are working towards the same vision.

Significance Of the study

Ewell (1997) urges that learning occurs best in a cultural and interpersonal context that supplies a great deal of enjoyable interaction and considerable levels of individual support. As Sarason (1991) argues "... you cannot have students as continuous learners and effective collaborators, without teachers having these same characteristics." DuFour (2004) insists that improvement initiatives will not occur within a school unless those involved in the initiative are willing to unite in support of it. Therefore, the findings of the study would also be helpful in: providing readers with a comprehensive body of literature on learning organization and the needs of learning cultures.

Learning Culture

School leaders' actions have a large influence on the cultures within which teachers work. That means professional development for principals and teacher leaders does not only prepare them to be instructional leaders who know how to assess teaching and learning but also enables them to transform their organizations' cultures (Sparks, 2007). According to Schein (1996), learning cultures

share at least seven basic elements; (1) a concern for people, (2) a belief that people can and will learn, (3) a shared belief that people have the capacity to change their environment, (4) some amount of slack time available for generative learning, (5) a shared commitment to open and extensive communication, (6) a shared commitment to learning to think systematically, and (7) interdependent coordination and cooperation.

However, Farago and Skyrme (1995) suggest that learning culture has six elements such as, (1) future and external orientation, (2) free exchange and flow of information, (3) commitment to learning and personal development, (4) valuing people, (5) climate of openness and trust, and (6) learning from experience. In addition, Rosenberg (2008) defines learning culture as an organization that knows how to learn, with people who freely share what they know and willing to change based on the acquisition of new knowledge.

Developing Learning Culture

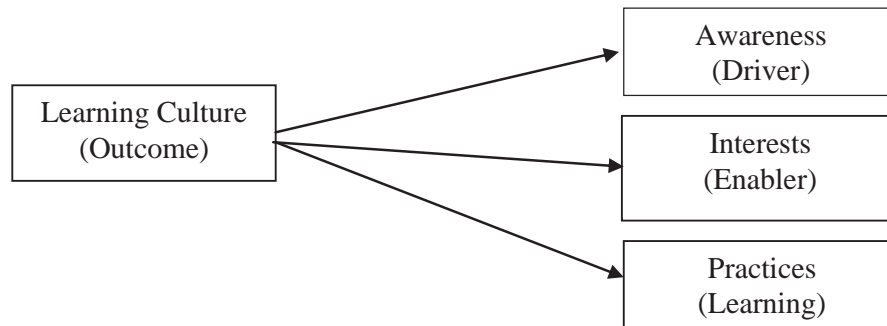
When school systems establish cultures of learning, they constantly seek and develop teachers' knowledge and skills required to create effective new learning experiences for students. As communities of learners, teachers are more likely to develop and pursue shared missions, collaborative teams, action orientations, collective inquiry initiatives, continuous improvement, and results (DuFour et al, 2005). A learning culture cannot encourage knowledge hoarding, but rather knowledge sharing. Cunningham (2005) supports that developing learning culture has

benefits such as, upgrading the skill of the staff, lower cost of training, uses of existing skills of staff, an attractive environment for staff and better relationship within teams where staff share learning.

Theoretical Model of the Study

The literature research provides grounds and underpinnings for the understanding of learning organization as a continuous process (Law, 2007). Evolved from the Learning Organization model developed by Law (2007), and Kris and Gunasekaran (2009), the study develops a theoretical model as in figure 2.

Figure 2
Theoretical Model of Study



Source: Adapted from Law (2007), Kris and Gunasekaran (2009), pp. 315.

The model shows that these three terms will influence teachers' participation in creating positive learning cultures in school. As a result, teachers' performance in teaching and learning process will increase and this enhances performance of the students in the long run.

Findings on Learning Culture

Previous research only discussed on creating the learning cultures. Firstly, Stickney (1997) gives evidence that when the members of the school consider learning to be an inquiry journey, students and teachers achieve high levels of engagement. This shows that whenever teachers are engaged in lively collaborative inquiry as well as inventing their own new best practices, they grow in skill, they increase their sense of efficacy, and they advance the profession both personally and collectively.

Besides that Roodt and Conradie (2003) examine on creating a learning culture in rural schools via educational satellite TV broadcasts. Findings show that satellite TV is an effective strategy for supplementing classroom education by fostering an interactive learning culture. Coetzer (2007)

found that the two comparison groups within three demographic variables (tenure, age, education) differed markedly in how they perceived their workplaces as learning environments. Managers may need practical help in managing the learning of diverse groups of employees, and in understanding the potential differences in employee learning processes. However, Mawhinney (2000) has experienced being an instructional leader. The researcher has related a personal experience in the development of the "Teacher Learning Groups" model in which staff leads sessions on a topic of interest or expertise.

Research Framework

Data were gathered through a survey questionnaire which was adapted from the Dimensions of Learning Organization Questionnaire (Watkins & Marsick, 1997) and Learning Culture Questionnaire from the internet. The questionnaire consists of five sections. Section one consists of questions related to demographic variables. Section two related to perception of teachers towards learning organization. Section three emphasize on the level of awareness on learning culture. Meanwhile, section four

deals with the level of interest on learning culture. Finally, section five deals with level of practices on learning culture. The participants' responses are based on the 5-point Likert scale; 1 = strongly never, 2 = Never, 3 = Neutral, 4 = Always, and 5 = Strongly always.

RESULTS AND DISCUSSION

Demographic Background

Distribution of the respondents based on demographic background is shown in table 1.

Table 1
Demographic Distribution of Respondents

Characteristics	Frequency(n)	Percentage (%)
Gender		
Male	28	13.3
Female	182	86.7
Total	210	100.0
Age		
Below 25 years	13	6.2
25 to 30 years	46	21.9
31 to 40 years	77	36.7
41 to 45 years	43	20.5
Above 45 years	31	14.7
Total	210	100.0
Level of Education		
Bachelor Degree	206	98.1
Masters Degree	4	1.9
PHD Degree	0	0
Total	210	100.0
Post in School		
School Administrator	21	10.0
Teacher	189	90.0
Total	210	100.0
Teaching Experience		
Below 5 years	47	22.4
5 to 10 years	53	25.2
11 to 15 years	46	21.9
16 to 20 years	30	14.3
More than 20 years	34	16.2
Total	210	100.0
Name of School		
SMK Taman Melati	38	18.1
SMK Taman Setapak Indah	49	23.3
SMK Bandar Baru Sentul	78	37.2
SMK Wangsa Melawati	45	21.4
Total	210	100.0

Out of 210 respondents, 182 (86.7%) were female while the rest which is 28 (13.3%) were male. The majority of the respondents (77) which is 36.7% were within the age range of 31 to 40 years. The rest are 46 or 21.9% at the age of between 25 and 30 years, 43 (20.5%) within the age range of 41 to 45 years, and 31(14.7%) were above 45 years.

The least of the respondents which is 13 (6.2%) were aged below 25 years. Regarding the level of education, 206 respondents which is 98.1% were Bachelor Degree holders, 4 (1.9%) were Master Degree holders and none was holding PhD. Out of the 210, respondents 189 (90%) were ordinary teachers and 21 (10%) were school administrators.

Regarding teaching experience, the majority of the respondents had 5 to 10 years of experience with a total number of 53 (25.2%), followed by those below 5 years which is 47 (22.4%), 46 or 21.9% of the respondents have 11 to 15 years of experience, while there were 34 (16.2%) with more than 20 years and 30 (14.3%) with 16 to 20 years of teaching experience. With respect to the distribution of respondents according to school, the 210 respondents were drawn from

four selected schools. There were 38 (18.1%) from SMK Taman Melati, 49 (23.3%) from SMK Taman Setapak Indah, 78 (37.2%) from SMK Bandar Baru Sentul and 45 (21.4%) from SMK Wangsa Melawati.

Perceptions toward School as a Learning Organization and Learning Culture

Perceptions between school administrators and teachers are summarized in Table 2.

Table 2
Perception towards School as a Learning Organization and Learning Culture

Item No.	Statement	Never (N) (%)	Neutral (N) (%)	Always (N) (%)	Mean	Std. Dev.
1	People openly discuss mistakes in order to learn.	23 11.0	98 46.7	89 42.3	3.3381	0.7977
2	People identify skills they need for future tasks.	23 11.0	80 38.0	107 51.0	3.4667	0.7772
3	People help each other in learning.	6 2.9	72 34.2	132 62.9	3.7238	0.7319
4	People are given time to support learning.	13 6.2	87 41.4	110 52.4	3.5333	0.7197
5	People view problems in work as opportunities to learn.	21 10.0	93 44.3	96 45.7	3.3857	0.7818
6	People give open and honest feedback to each other.	25 11.9	105 50.0	80 38.1	3.2476	0.7737
7	People listen to each other's views before speaking.	14 6.7	95 45.2	101 48.1	3.4238	0.7164
8	People are encouraged to ask "why".	22 10.5	88 41.9	100 47.6	3.4286	0.8284
9	People state views and also ask what others think.	8 3.8	87 41.4	115 54.8	3.5571	0.6699
10	People treat each other with respect.	8 3.9	58 27.6	144 68.6	3.7762	0.7529
	Total Average	16.3 7.79	86.3 41.09	107.4 51.15	3.4881	

Note: Never = Strongly Never and Never, Neutral = Neutral, and Always = Strongly Always and Always. (N= number of respondents)

The mean percentage of the responses in agreement to all but one item was above the significance level. The highest response for never showed that item number 6 has 11.9% (n=25) of the respondents never giving open and honest feedback to each other and the lowest percentage was item number 3, which has 2.9% (n=6) indicating never helping each other in learning. This was reflected by the 50% (n=105) who gave neutral response and proved that the respondents give open and honest feedback to each other and only 27.6%

(n=58) of the respondents treat each other with respect.

A significant response in agreement was observed for item number 10. It confirmed that 68.6% (n=144) always treat each other with respect and again item number 6 has 38.1% (n=80) of the respondents who always give open and honest feedback to each other. Overall, the results of the responses revealed significant values for item #1 to #10 because they have the range of mean from 3.2476 to 3.7762 and standard deviation from 0.7737 to 0.7529. The total

average mean was 3.4881. The items mentioned were the extreme results which indicate a favorable perception regarding school as a learning organization and promoting learning culture.

Comparison of Level of Awareness, Interests and Practices towards Learning

Table 3
Descriptive statistics of school administrators' and teachers' awareness of learning culture

Item No.	Statement	School Administrators		Teachers		Total	
		Mean	SD	Mean	SD	Mean	SD
11	School has a written mission statement.	4.6190	0.4976	4.3915	0.6804	4.4143	0.6669
12	Principal has explained the values and goals.	4.8095	0.4024	4.3175	0.6314	4.3667	0.6293
13	Principal has explained the commitment to learning.	4.6190	0.5896	4.2804	0.6609	4.3143	0.6607
14	Review the plan to check progress.	4.2857	0.7171	3.8942	0.8248	3.9333	0.8215
15	Prepared a written learning plan for the school.	4.8095	0.4024	4.0529	0.7700	4.1286	0.7749
16	Know their roles and standards to be achieved.	4.5714	0.5976	4.0794	0.6756	4.1286	0.6831
17	Ask teachers for ideas to improve the way they work.	4.2857	0.5606	3.7460	0.8373	3.8000	0.8289
18	Teachers' ideas are given proper consideration.	4.5238	0.5118	3.6825	0.8021	3.7667	0.8171
19	Teachers are clear on the objectives for any learning activities.	4.5714	0.5976	4.0265	0.6719	4.0810	0.6834
20	School learning activities are linked to external standards.	4.2857	0.8452	3.7778	0.7809	3.8286	0.8002
21	Teachers are given adequate opportunities to acquire skills they needed.	3.9048	0.8309	3.7249	0.8682	3.7429	0.8642
22	Involvement of teachers in meeting their learning needs.	4.2857	0.7838	3.7407	0.8700	3.7852	0.8754
23	Administrators are effective in helping people to learn.	4.2381	0.5389	3.7196	0.7654	3.7714	0.7609
	Total	4.4469	0.6058	3.9565	0.7568	4.0047	0.7589

Note: School administrators (n=21, 10%), teachers (n=189, 90%), SD=Standard deviation

Table 3 shows the mean percentage observed on all items was significant. Item number 12 and 15 showed the highest mean which was 4.8095 (SD=0.4024) for school administrators who agreed that the principal has explained the values and goals for learning culture and prepares a written learning plan for the school. The observation of the lowest mean percentage of 3.9048 (SD=0.8309) reveals that school administrators agreed that they had given adequate opportunities to acquire skills needed by the teachers.

The highest mean for teachers was for item number 11 which has mean of 4.3915 (SD=0.6804). The results proved that teachers

Culture by School Administrators and Teachers

RQ1: To what extent are school administrators and teachers aware of learning culture?

were aware of written school mission statement. The lowest mean of 3.6825 (SD=0.8021) was for item number 18 which teachers believed that their ideas were given proper consideration. The results reveal that school administrators and teachers have a positive level of awareness toward learning culture in school.

RQ2: To what extent are school administrators and teachers interested in learning culture?

Table 4 shows the total mean which has a significant value of 4.0047 (SD=0.7589) for the 13 items.

Table 4

Descriptive statistics of school administrators and teachers interest in learning culture

Item No.	Statement	School Administrators		Teachers		Total	
		Mean	SD	Mean	SD	Mean	SD
24	Want to know how other schools carry out their activities.	4.3333	0.5773	4.0476	0.6864	4.0762	0.6804
25	Excited about learning.	4.0952	0.4364	4.1587	0.5799	4.1524	0.5667
26	Self-directed about learning.	4.3333	0.4831	4.1376	0.6033	4.1571	0.5942
27	Strong personal commitment to professional growth.	4.6667	0.4830	4.2116	0.5994	4.2571	0.6034
28	Responsibility to contribute to the development of learning culture.	4.4762	0.5118	4.2222	0.6469	4.2476	0.6381
29	Professional responsibility to continue learning and developing daily work.	4.4762	0.5118	4.2222	0.5865	4.2476	0.5833
30	Need to learn more from experience.	4.4762	0.5118	4.2593	0.5938	4.2810	0.5886
31	Seek out opportunities to enhance professional knowledge.	4.3330	0.5774	4.1164	0.7125	4.1381	0.7020
	Total	4.3988	0.5116	4.1719	0.6261	4.1946	0.6195

Note: School administrators (n=21, 10%) , teachers (n=189, 90%), SD=Standard deviation

The results show that school administrators have the highest mean of 4.6667 (SD=0.4830) for item number 27. It proves that the school administrators have very strong personal commitment to professional growth compared to teachers. The lowest mean of 4.0952 (SD=0.4364) falls at item number 25 which indicates that school administrators have less excitement about learning. The rest of the items reveal that school administrators have very high level of interest.

As a comparison, teachers have the highest mean of 4.2593 (SD=0.5938) for item number 30. It reveals that teachers have more interest in learning from experience. The result is followed by the lowest mean of 4.0476 (SD=0.6864) for item number 24. This shows that teachers have less interest in knowing how other schools carry out their activities. However, teachers have very high level of interest for other aspects such as they

have very strong personal commitment to professional growth, they are responsible toward developing learning culture and continuing learning in developing daily work. The results shows teachers have less excitement, less interest in self-directing about learning and to seek opportunities in enhancing professional knowledge. However, all items have the range of total mean from 4.1269 (SD=0.5081) to 4.4391 (SD=0.5412) and this has proven that school administrators and teachers do have very high level of interest in learning culture.

RQ3: To what extent are school administrators and teachers practice of learning culture?

Table 5 indicates that the school administrators have higher mean compared to the teachers for all items.

Table 5

Descriptive statistics of school administrators and teachers in practices in learning culture

Item No.	Statement	School Administrators		Teachers		Total	
		Mean	SD	Mean	SD	Mean	SD
32	Teachers have freedom to adapt their goals.	3.9048	0.8309	3.6561	0.7741	3.6810	0.7814
33	Leaders mentor and coach those they lead.	4.2381	0.6249	3.7513	0.7965	3.8000	0.7935
34	School's actions are consistent with its values.	4.1429	0.5732	3.7725	0.7409	3.8095	0.7332
35	There are a lot of opportunities to learn formally.	4.2381	0.6249	3.7460	0.7431	3.7952	0.7456

36	There are a lot of opportunities to learn from each other.	4.3333	0.6583	3.7090	0.7614	3.7714	0.7734
37	Learning systems do prioritize pedagogical issues.	4.3333	0.4831	3.8148	0.7312	3.8667	0.7263
38	There is benefit from collaborative reflection with colleagues.	4.1905	0.5118	3.8624	0.7087	3.8952	0.6975
39	Making time for individual professional reflection.	4.0000	0.7071	3.7831	0.6999	3.8048	0.7020
40	Evaluation on learning activities.	4.1429	0.4781	3.7937	0.6801	3.8286	0.6700
41	Reviewing learning values and improvements.	4.1429	0.7271	3.7407	0.8452	3.7810	0.8412
	Total	4.1667	0.1357	3.7630	0.7481	3.8033	0.7464

Note: School administrators (n=21, 10%), teachers (n=189, 90%), SD=Standard deviation

Both school administrators and teachers have the lowest mean of 3.9048 (SD=0.8309) and 3.6561 (SD=0.7741) respectively for item number 32. This reveals that the respondents have less practice in adapting their goals. However, school administrators have very high mean of 4.3333 for both items number 36 and 37. The result indicates that the respondents have a lot of opportunities to learn from each other and learning systems do prioritize pedagogical issues. This finding further justifies that school administrators have very high level of practices in learning culture since the mean for other items range from 4.000 (SD=0.7071) to 4.2381 (SD=0.6249).

The results further show that teachers have total average mean of 3.7630 (SD=0.0544). The response for all items were in the range of mean 3.6561 (SD=0.7741) to 3.8624 (SD=0.7087). The result shows that school administrators practice learning culture more than the teachers.

with regard to awareness, interests and practices of learning culture?

The descriptive analysis of total mean scores in respect of post in school as depicted in Table 6 shows that school administrators posed higher mean scores overall than the teachers in level of awareness, interests and practices in learning culture. This was due to the result for school administrators' mean awareness = 4.4469 (SD=0.6058), mean interests = 4.3988 (SD=0.5116) and mean practices = 4.1667 (SD=0.1357). Similarly, the teachers have mean awareness = 3.9565 (SD=0.7568), mean interests = 4.1719 (SD=0.6261) and mean practices = 3.7630 (SD=0.7481). On the other hand, school administrators have the highest mean for level of awareness and the lowest mean for level of practices in learning culture. However, teachers have the maximum mean for level of interests and the minimum mean for level of practices in learning culture.

Test of Significance

RQ4: Are there any significant differences between school administrators and teachers

Table 6
Descriptive statistic on awareness, interests and practices between
School Administrators and Teachers

Group of respondents	N	Awareness		Interests		Practices	
		Mean	SD	Mean	SD	Mean	SD
School Administrators	21	0.4469	0.6058	4.3988	0.5116	4.1667	0.1357
Teachers	189	0.9565	0.7568	4.1719	0.6261	3.7630	0.7481
Total	210	4.0047	0.7589	4.1946	0.6195	3.8033	0.7464

The independent sample t-test was conducted to explore the significant differences between school administrators and teachers. Table 7 demonstrates that there were significant differences in between scores for school administrators (mean awareness=4.4449, SD=0.6058), and teachers (mean awareness=3.9565, SD=0.7568); ($t=2.8889, p=0.0455$). However, as $*p < 0.05$ (two-tailed), this proved that there is significant difference in the level of awareness between school administrators and teachers. The result indicated that there were no significant differences between scores for school administrators (mean interests=4.3988, SD=0.5116) and teachers (mean interests=4.1719, SD=0.6261); ($t=1.5926$,

$p=0.1600$) in regard of the level of interest. In this situation, the p-value (0.1600) is greater than a significant level ($*p > 0.05$) which means that there is no significant difference that exists statistically between school administrators and teachers in level of interests towards learning culture. The finding was further justified that there were significant difference between scores in level of practices for school administrators (mean practices=4.1667, SD=0.1357) and teachers (mean practices=3.7630, SD=0.7481); ($t=2.3799, p=0.0489$). As $*p < 0.05$ (two-tailed), this shows that there is significant difference between school administrators and teachers with regard to level of practices in learning culture.

Table 7
Independent sample t-test on Awareness, Interest and Practices

	n	F	Sig.	df	t	Sig. (2 tailed)	Result
Awareness	210	2.4623	0.2875	208	2.8889	0.0455	Significant
Interest	210	0.6502	0.6568	208	1.5926	0.1600	Not significant
Practices	210	1.9580	0.2897	208	2.3799	0.0489	Significant

Note: Equal Variance Assumed, $*p < 0.05$ (significant difference)

Correlation Between Awareness, Interest and Practices in Learning Culture

RQ5: Are there correlations between awareness, interest and practices of school administrators and teachers in learning culture?

Table 8 shows the analysis between the awareness and interests [r_1 (210)= 0.2478, $p=0.0350$], and $p > 0$ shows that it has positive relationship; p-value is less than alpha, α (0.05), and thus it is statistically significant. However the coefficient, r_1 value is in between 0.1 and 0.3. This provides evidence that the study accepts the null and concludes that there is a weak relationship between level of awareness and level of interests. The findings also confirmed that moderate correlation does exist between awareness and practices [r_2 (210)= 0.4138, $p=0.00005$].

On the contrary, the relation is also depicted for interest where it correlates with awareness [r_3 (210) = 0.2547, $p=0.0350$];

indicated that it has statistically significant ($p < 0.05$), positive but weak relationship ($0.1 < r_3 < 0.3$). This also bears out that interest correlates with practices [r_4 (210) = 0.2857, $p=0.0026$]; which proved that it has a significant, positive but weak relationship.

Likewise, the study shows correlation existed between practices and awareness [r_5 (210)=0.4138, $p=0.00005$]; which revealed that it has statistically significant ($p < 0.05$), positive and moderate relationship ($0.3 < r_5 < 0.5$). The findings for practices and interests also verify that there is correlation between variables [r_6 (210)= 0.2857, $p=0.0023$]; which confirmed it is significant ($p < 0.05$), positive and has weak relationship ($0.1 < r_6 < 0.3$). The results proved there is evidence that these variables are statistically significant and there are correlation between the level of interests, awareness and practices. This proved that the level of awareness, interest and practices correlates with each other when all the values of $r_1=r_2=r_3=r_4=r_5=r_6 > 0$.

Table 8
Correlation Between Awareness, Interest and Practices of School Administrators and Teachers towards Learning Culture

		Awareness	Interests	Practices
Awareness	Pearson, <i>r</i>	-	$r_1=0.2478$	$r_2=0.4138$
	Sig.(2-tailed)	-	0.0350	0.00005
	N	-	210	210
Interest	Pearson, <i>r</i>	$r_3=0.2547$	-	$r_4=0.2857$
	Sig.(2-tailed)	0.0350	-	0.0026
	N	210	-	210
Practices	Pearson, <i>r</i>	$r_5=0.4138$	$r_6=0.2857$	-
	Sig.(2-tailed)	0.00005	0.0023	-
	N	210	210	-

* $r > 0$, $\alpha=0.05$, $p < 0.05$ (significant)

Participants Responses based on Demographic Variables

RQ6: Do the participants' responses vary according to the demographic variables?

Respondents and Teaching Experiences

Table 9 shows the descriptive analysis of respondents by teaching experience where the

male respondents with experience of 16 to 20 years have the highest mean scores of (Mean=136.00, SD=9.899). This is also supported by female respondents with experience of 16 to 20 years have the highest mean scores of (Mean=149.61, SD=57.485). This means that the learning culture of the respondents increases with the increase in teaching's experience.

Table 9
Descriptive Analysis of Respondents by Teaching Experience

Gender	Teaching experience	Mean	Std. Deviation	N
1	below 5 years	102.00	21.087	4
	5 to 10 years	101.88	51.504	8
	11 to 15 years	106.91	65.459	11
	16 to 20 years	136.00	9.899	2
	more than 20 years	128.33	43.501	3
	Total	109.14	50.868	28
2	below 5 years	84.74	41.669	43
	5 to 10 years	93.31	60.351	45
	11 to 15 years	121.17	66.076	35
	16 to 20 years	149.61	57.485	28
	more than 20 years	91.16	67.328	31
	Total	104.94	62.252	182
Total	below 5 years	86.21	40.473	47
	5 to 10 years	94.60	58.724	53
	11 to 15 years	117.76	65.489	46
	16 to 20 years	148.70	55.605	30
	more than 20 years	94.44	65.956	34
	Total	105.50	60.766	210

Furthermore, in order to explore the significant differences among groups within

teaching experiences, the tests of between-subjects effect was carried out. However, there was no statistical significant difference

among the groups at Sig.05 level based on their level of teaching experiences. As shown

in table 10, [$F(4,210)=0.531, df=210, p=0.713$], therefore $p>0.05$ which shows

there were no statistical significant difference between gender and teaching experience, and for their interaction Gender*Experience.

Table 10
Tests of Between-Subjects Effects of Respondents by Teaching Experience

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	98252.375(a)	9	10916.931	3.242	.001
Intercept	862767.589	1	862767.589	256.212	.000
GENDER	855.897	1	855.897	.254	.615
EXPERT	16371.366	4	4092.841	1.215	.305
GENDER * EXPERT	7154.235	4	1788.559	.531	.713
Error	673480.125	200	3367.401		
Total	3109085.000	210			
Corrected Total	771732.500	209			

a R Squared = .127 (Adjusted R Squared = .088)

However, Table 11 shows the comparison between years of teaching. It was clearly shown that there were a significant difference

between all four combinations of teaching experience level ($p<0.005$).

Table11
Multiple Comparisons of Respondents by Teaching Experience

(I) Teaching experience	(J) Teaching experience	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
below 5 years	5 to 10 years	-8.39	11.627	.951	-40.40	23.62
	11 to 15 years	-31.55	12.035	.070	-64.68	1.58
	16 to 20 years	-62.49(*)	13.561	.000	-99.82	-25.16
	more than 20 years	-8.23	13.065	.970	-44.19	27.74
5 to 10 years	below 5 years	8.39	11.627	.951	-23.62	40.40
	11 to 15 years	-23.16	11.694	.279	-55.35	9.03
	16 to 20 years	-54.10(*)	13.258	.001	-90.59	-17.60
	more than 20 years	.16	12.751	1.000	-34.94	35.26
11 to 15 years	below 5 years	31.55	12.035	.070	-1.58	64.68
	5 to 10 years	23.16	11.694	.279	-9.03	55.35
	16 to 20 years	-30.94	13.618	.158	-68.43	6.55
	more than 20 years	23.32	13.124	.390	-12.81	59.45
16 to 20 years	below 5 years	62.49(*)	13.561	.000	25.16	99.82
	5 to 10 years	54.10(*)	13.258	.001	17.60	90.59
	11 to 15 years	30.94	13.618	.158	-6.55	68.43
	more than 20 years	54.26(*)	14.536	.002	14.24	94.27
more than 20 years	below 5 years	8.23	13.065	.970	-27.74	44.19
	5 to 10 years	-.16	12.751	1.000	-35.26	34.94
	11 to 15 years	-23.32	13.124	.390	-59.45	12.81
	16 to 20 years	-54.26(*)	14.536	.002	-94.27	-14.24

Respondents and Level of Education

Table 12 showed that there were not much difference between the male and female respondents who possess a Bachelor Degree (Mean=109.30, SD=51.830 and Mean=105.92, SD=62.307) respectively.

However, there were significant different for male respondents (Mean=105.0, SD=0.0) and female respondents (Mean=46.67, SD=5.132) for Masters' degree.

Table 12
Descriptive Analysis of Respondents by Level of Education

Gender	Level of Education	Mean	Std. Deviation	N
1	Bachelor Degree	109.30	51.830	27
	Masters' Degree	105.00	.	1
	Total	109.14	50.868	28
2	Bachelor Degree	105.92	62.307	179
	Masters' Degree	46.67	5.132	3
	Total	104.94	62.252	182
Total	Bachelor Degree	106.36	60.934	206
	Masters' Degree	61.25	29.466	4
	Total	105.50	60.766	210

Table 13 showed that there were significant difference between the respondents with respect to the level of education where [F(206,4)=2.174,df=208, p=0.142] and *p > 0.05 (two-tailed). This showed that there were

statistically significant difference between level of education and their level of awareness, interests and practices in learning culture.

Table 13
Tests of Between-Subjects Effects of Respondents by the Level of Education

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	10804.461(a)	3	3601.487	.975	.405
Intercept	97823.060	1	97823.060	26.483	.000
GENDER	2767.926	1	2767.926	.749	.388
EDU	2934.738	1	2934.738	.794	.374
GENDER * EDU	2194.733	1	2194.733	.594	.442
Error	760928.039	206	3693.825		
Total	3109085.000	210			
Corrected Total	771732.500	209			

a R Squared = .014 (Adjusted R Squared = .000)

As shown in Table 13, [F(1,210)=0.594,df=210, p=0.442], therefore *p>0.05 which showed there were no statistical significant difference between gender and level of education, and for their interaction Gender*Education.

Respondents and Age

Table 14 showed the respondents with the age level of 41 to 45 years demonstrated a higher

mean score for female respondents (Mean=126.24, SD=69.578). On the other hand, the highest mean score for the male respondents came from the age group above 45 years (Mean=128.50, SD=0.707); which reveals that the respondents perceived more based on their level of awareness, interests and practices of learning culture as their age increase above 40 years.

Table 14
Descriptive Analysis of Respondents by Age

Age	Gender	Mean	Std. Deviation	N
below 25 years	1	75.00	.	1
	2	104.08	40.724	12
	Total	101.85	39.816	13
25 to 30 years	1	77.67	26.633	3
	2	100.30	57.707	43
	Total	98.83	56.317	46
31 to 40 years	1	113.94	54.968	16
	2	100.15	61.642	61
	Total	103.01	60.232	77
41 to 45 years	1	111.33	59.728	6
	2	126.24	69.578	37
	Total	124.16	67.835	43
above 45 years	1	128.50	.707	2
	2	95.07	65.224	29
	Total	97.23	63.563	31
Total	1	109.14	50.868	28
	2	104.94	62.252	182
	Total	105.50	60.766	210

Table 15 reveals that there is no significant difference existed between the groups in terms of the age of the respondents towards the level of awareness, interests and practices in learning culture. This means that the respondents within the same age group perceived the level of awareness, interests and

practices in almost the same way without significant difference among the groups in such a way that $[F(4,210)=0.515, df=210 \text{ and } p=0.725]$. In this case $*p>0.05$, therefore there are no statistical significant differences among the different ages.

Table 15
Tests of Between-Subjects Effects

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	27664.731(a)	9	3073.859	.826	.593
Intercept	474237.481	1	474237.481	127.472	.000
AGE	7804.905	4	1951.226	.524	.718
GENDER	167.632	1	167.632	.045	.832
AGE * GENDER	7657.488	4	1914.372	.515	.725
Error	744067.769	200	3720.339		
Total	3109085.000	210			
Corrected Total	771732.500	209			

DISCUSSION, RECOMMENDATIONS AND CONCLUSIONS

Perceptions towards School as a Learning Organization and Learning Culture

The result reveals that the school administrators and the teachers were highly concerned with knowledge sharing. Hansen *et al* (1999), Ruggles (1998) and Robertson and O'Malley (2000) found that good human resource practices and culture that fulfill

employees' expectation in appraisal, reward systems and satisfying work can influence employees' decision in knowledge sharing. Christensen (2007) mentioned that knowledge sharing is the process intended at exploiting existing knowledge, identifying existing and accessible knowledge, in order to transfer and apply this knowledge to solve specific tasks better and faster. The respondents believed that in order to learn in school, they should identify the skills they need for future task. If this kind of action is being applied by the school administrators and teachers it will lead to a positive learning culture in school. A school's culture also can be highly influenced by the societal culture (Dimmock and Walker, 2000; Hofstede, 2001) in which it is embedded.

Comparison of the Level of Awareness, Interests and Practices towards Learning Culture by School Administrators and Teachers

School administrators and teachers have a positive level of awareness on learning culture. They were aware that school administrators regularly ask for their ideas to improve the way they work and the ideas are given proper consideration. The findings showed that both parties have strong personal commitment to professional growth and development. The elements of interests in learning culture in the study proved that during learning process, individuals will influence each other and their ideas will co-evolve; that is each idea will adapt and change in the context of other ideas, and once changed, it will in turn, have influence on what happens next.

Significant Difference between School Administrators and Teachers with regard to Awareness, Interests and Practices of Learning Culture

The study indicated that there are significant differences in awareness and practices of learning culture between school administrators and teachers and in contrary there is no significant difference for interest. This signifies that school administrators and teachers have different perspectives in the level of awareness and practices. However, the response shows similarity in level of interest for school administrators and

teachers. This means that most teachers devote time into thinking of developing their curriculum.

Correlation between Awareness, Interests and Practices on Learning Culture

The result showed that they have very weak relationship or it could be considered as the correlation is not strong. The findings again shed the light that learning in the workplace (school) does influence the level of awareness, interests and practices on school administrators and teachers. It needs to happen from a conceptual as well as an operational framework (Kim, 1993), meaning that people now need to learn to think differently about their problems. Studies mentioned that learning is associated with challenging assignments, social relationships, and "hardships" or crises (McCall *et al*, 1988).

Participants' Responses based on Demographic Variables

Respondents and Teaching Experience

The analysis of variance (ANOVA) was conducted and the results confirmed that these differences were statistically significant. The highest mean is the teaching experience of 16 to 20 years; followed by 11 to 15 years and then declined at the teaching experience of more than 20 years and lastly for below 5 years of service. This finding is strongly consistent to the previous findings of CALDER's existing research that, on average, brand new teachers are less effective than those with some experience under their belts (Clotfelter, Ladd, And Vigdor 2007a, 2007b; Harris and Sass, 2007; Kane, Rockoff, and Staiger 2006; Ladd, 2008; Sass 2007).

Respondents and the Level of Education

The study revealed that there were statistically significant differences between level of education and their level of awareness, interests and practices in learning culture. The higher level of education will reflect to a better conception; change in behavior and mindsets towards learning culture in school. Consensus exists that teacher education has little effect on altering

teachers' beliefs (Weinstein, 1989) and that changes in practices do not necessarily accompany changes in beliefs (Prawat, 1992).

Respondents and Age

The study indicated that the respondents at the age of 41 to 45 perceived highly the level of awareness, interests and practices in learning culture. However, the perceptions on the awareness, interests and practices increased considerably between 31 to 40 years and below 25 years and then declined at the age 45 years and above. In order to support the above assertions, the two way analysis of variance (ANOVA) was conducted and the result confirmed that there were no significant differences. Many of the respondents did not feel they could take time to learn, to reflect or to practice in learning culture as their age increases.

RECOMMENDATION FOR FUTURE RESESARCH

Owing to several limitations of the present study, it is deemed important to offer the following suggestions for future research:

1. Increase size of the sample used will enhance the study's findings in relation to schools in Kuala Lumpur,
2. Utilize random sampling procedures for ease of generalizing the findings across the schools,
3. Include professional learning culture

between schools in Kuala Lumpur,

4. Use the mixed method of triangulating Quantitative data and face-to-face interview to ascertain the dimensions of learning culture,
5. Examine the learning culture to other individuals such as school staff, parents and Ministry of Education staff,
6. Perceptions of learning environment in Kuala Lumpur schools,
7. Use more learning culture dimensions which can be obtained through the source of qualitative research.

IMPLICATIONS

The following recommendations are considered important for teachers and school administrators in order to maintain and enhance the learning culture:

Theoretical Implication

Many theorists discussed learning culture such as Schein (1996), Farago (1995), and Rosenberg (2008). The theory on creating a learning culture by Conner and Clawson (2002) gives impact to the researcher to study on the school administrators' and teachers' level of awareness, interests and practices on learning culture. Table 16 below showed the comparison study.

Table 16
Comparison Study

Element	Conner & Clawson (2002)	Present study
1	Adults have a pragmatic approach and they learn what they need to learn.	School administrators and teachers in school.
2	Learning with style or set of preferences.	Level of awareness
3	Learn at own pace.	Level of awareness
4	Interest in learning new things.	Level of interest
5	Want to be in charge of their learning.	Level of interest
6	Learning occurs mostly in context, on the job.	Level of practices
7	Transfer of learning in an organization is largely a function of the quality and strength of personal relationships.	Level of practices

The current study sheds light on how much the school administrators and teachers perceived awareness, interest and practices on learning culture in school. These factors will affect school academic performance. This is because learning culture is a dynamic

learning—the outcome of those interactions—depends on how teachers implement curriculum, design academic tasks, and engage students in these tasks, as well as how students approach their teachers, each other, and their work.

Practical Implication

There is absolute need to update some of the items so that more accurate information is gathered in terms of level of awareness, interests and practices. The schools should:

- (a) impose more training and retraining of teachers in building their personal character,
- (b) focus on how to create and maintain positive climate of learning culture in order to meet educational needs.

Managerial Implication

School administrators and teachers should be concerned on these aspects:

- (a) School administrators should emphasize more on helping teachers to learn and give opportunities to adapt to new information,
- (b) School administrators should enlighten the teachers on the importance and benefits of promoting positive learning culture,
- (c) School administrators, teachers and school staffs should organize periodic workshops and conferences to discuss current issues related to learning culture and,
- (d) Provide a forum for teachers to present their complaints and suggestions to improve the learning culture.

Implication for Students

- 1) Establishing a focus on learning—by persistently and publicly focusing their own attention and that of others on learning and teaching,
- 2) Building professional communities that value learning—by nurturing work cultures that value and support their members' learning,
- 3) Engaging external environments that matter for learning—by building relationships and securing resources from outside groups that can foster students' or teachers' learning,
- 4) Acting strategically and sharing leadership—by mobilizing effort along multiple “pathways” that lead to student, professional, or system

learning, and by distributing leadership across levels and among individuals in different positions, and

- 5) Creating coherence—by connecting student, professional, and learning system with one another and with learning goals.

CONCLUSION

School administrators and teachers play a significant role in these deliberations over a learning culture agenda. They are in a position to provide professional and research knowledge, as well as influence the community's views of what counts as learning culture. The findings of this present study provides a yardstick and foundation for more in-depth future research on the evaluation of learning culture in secondary schools; however, the current study is limited to only four secondary schools in Kuala Lumpur.

The study showed that all teachers and school administrators were highly aware, interested and practiced learning culture in their schools. It also demonstrated that no significant differences occur among groups of respondents concerning age, which means increase in age resulting in decline in awareness, interests and practices of learning culture. Accordingly, there is statistically significance among groups of respondents concerning level of education and teaching experience; which reveals that higher education and teaching experience do influence the level of awareness, interests and practices in learning culture.

The findings indicated that, veteran teachers may be less effective than their less-experienced counterparts suggest that researchers and policymakers should consider strategies to encourage high performance well into a teacher's career. The decline in performance among the most experienced teachers is most evident at the high school level, suggesting that this is where such attention should be focused. In cases where more veteran teachers are unable to maintain performance levels with adequate support and professional development, mechanisms for alternative assignments or even dismissal should be considered. The evidence that the

most experienced teachers may not be the most effective should prompt policymakers to reexamine the common practice of determining teacher layoffs based on seniority. This is not to say seniority is not important, but such policies may undermine efficiency.

References

- Argyris, C., & Schon, D. (1978). *Organizational learning: A theory of action perspective*. Reading, MA: Addison-Wesley.
- Christensen, P. H. (2007). Knowledge sharing: moving away from the obsession with best practices. *Journal of Knowledge Management*. (1), pp.36-47.
- Clotfelter, Charles T., Helen F. Ladd, and Jacob L. Vigdor. (2007a). "How and Why Do Teacher Credentials Matter for Student Achievement?" CALDER Working Paper 2. Washington, DC: The Urban Institute.
- . (2007b). "Teacher Credentials and Student Achievement in High School: A Cross-Subject Analysis with Student Fixed Effects." CALDER Working Paper 11. Washington, DC: The Urban Institute.
- Coetzer, A. (2007). "Employee perceptions of their workplaces as learning environments." *Journal of Workplace Learning*, Vol. 19 No. 7, 2007, pp.417- 434. Retrieved on May 30, 2010 from <http://www.emeraldinsight.com/1366-5626.htm>
- Cunningham, I. (2005). *Work-based learning*. People management, issues from 24 March – 28 July 2005. Retrieved from <http://www.cipd.co.uk>
- Dimmock, C. and Walker, A. (2000). "Developing comparative school leadership and management: a cross-cultural approach", *School Leadership & Management*, Vol. 20, No. 2, pp. 143-160.
- Dodgson, M. (1993). Organizational learning: A review of some literatures. *Organization Studies*, Vol. 14(3), pp. 375-394.
- DuFour, R. (2004). What is a "professional learning community?" *Educational Leadership*, 61(6), pp.6-11.
- DuFour, R. Eaker, R. & DuFour, R. (2005). *On common ground*. Bloomington, IN: Solution Tree.
- Ewell, P. T. (1997). Organizing for learning: A point entry. National Center for higher education Management Systems (NCHEMS), Draft prepared for discussion at the 1997 AAHE Summer Academy at Snowbird. Retrieved on June 10, 2010 from: http://www.intime.uni.edu/model/learning/learn_summary.html
- Farago, J. & Skyrme, D. (1995). The learning organization. Retrieved on May 30, 2010 from: <http://www.skyrme.com/home-sustainability-knowledge>.
- Garvin, D. A. (1993). Building a learning organization. *Harvard Business Review*, 71(A), pp.78-91.
- Hansen, M., Nohria, N. and Tierney, T. (1999). *What's your strategy for managing knowledge?* Harvard Business Review, 77(2), pp.106.
- Harris, D. N., and Sass, T. R. (2007). "Teacher Training, Teacher Quality, and Student Achievement." CALDER Working Paper 3. Washington, DC: The Urban Institute.
- Hofstede, G. (2001). *Cultures Consequences*, Thousand Oaks, CA: Sage Publications.
- Kane, T. J., Rockoff, J. E. and Staiger, D. O. (2006). "What Does Certification Tell Us about Teacher Effectiveness? Evidence from New York City." Working Paper 12155. Cambridge, MA: National Bureau of Economic Research.
- Kerka, S. (1995). 'The learning organization: myths and realities' *Eric Clearinghouse*, Retrieved on May 30, 2011 from: <http://www.cete.org/acve/docgen.asp?tbl=archive&ID=A028>
- Kim, D. H. (1993). "The link between individual and organizational learning", *Sloan Management Review*, Fall, pp. 37-50.

- Kris, M. Y. Law and Angappa Gunasekaran. (2009). "Dynamic organizational learning: a conceptual framework", *Industrial and Commercial Training*. Vol 41 (6), pp. 314-320.
- Ladd, H. F. (2008). "*Value-Added Modeling of Teacher Credentials: Policy Implications*." Paper presented at the second annual CALDER research conference, "The Ins and Outs of Value-Added Measures in Education: What Research Says," Washington, D.C., http://www.caldercenter.org/upload/Sunny_Ladd_presentation.pdf.
- Law, K.M.Y. (2007). "The development and implementation of project action learning framework-from theory to practice", PhD thesis.
- Levitt, B. and March, J. G. (1998), "Organizational Learning", *Annual Review of Sociology*, Vol.14, pp. 319-40.
- Mawhinney, T. S. (2000). *Who's teaching whom? Building a culture of learning in your school*. National Association of Secondary School Principals, NASSP Bulletin. Reston: Sept 2000. Vol. 84, Iss. 617, pp 73-76.
- McCall, M., Lombardo, M. & Morrison, A. (1988). *The lessons of experience: How successful executives develop on the job*. New York: Free Press.
- Prawat, R. (1992). Teachers' beliefs about teaching and learning: A constructivist perspective. *American Journal of Education*, 100(3), pp.354-395.
- Robertson, M. and O'Malley Hammersley, G. (2000). Knowledge management practices within a knowledge-intensive firm: the significance of the people management dimensions, *Journal of European Industrial Training*. 24(2-4), 241-53.
- Roodt, J. & Conradie, Pieter. (2003). Creating a learning culture in rural schools via educational satellite TV broadcast. Retrieved on Sept 1, 2010 from : <http://www.comminit.com>.
- Rosenberg, M. (2008). *Building a learning culture*. Retrieved on May 30, 2010 from <http://www.elearning.b2bmediaco.com>.
- Ruggles, R. (1998). The state of the notion: knowledge management in practice. *California Management Review*. 40(3), pp.80-89.
- Sarason, S. B. (1991). Quoted in Judith, L.Y. (2002). *Teaching in mind: How teacher thinking shapes education*. Hamilton: MindFlight.
- Sass, T. R. (2007). "*The Determinants of Student Achievement: Different Estimates for Different Measures*." Paper presented at the first annual CALDER research conference, Washington, D.C., October 4.
- Schein, E. H. (1996), "Can learning culture evolve?", *The Systems Thinker*, Vol. 7, no. 6 Retrieved from : <http://www.pegasus/communications, inc.> (March 30, 2010)
- Senge, P. (1990). *The fifth discipline: The art and practice of learning organization*. New York : Currency Doubleday.
- Senge, P.M., Roberts, C., Ross, R.B., Smith, B.J. and Kleiner, A. (1994), *The Fifth Discipline Fieldbook*, , New York: Currency Doubleday.
- Sparks, D. (2007). *Leading For Results, second edition, Transforming Teaching, Learning, and Relationships in Schools*. California: Corwin Press.
- Stickney, K. J.M. (1997). School culture and student learning: A case study of self-renewing school. (Doctoral dissertation, University of Oregon). Dissertation Abstracts International, 57 (07).
- Watkins, K.E. and Marsick, V.J. (1997). Dimensions of learning organization (DLOQ) [survey] Warwick, RI: Partners for the Learning Organization.
- Weinstein, C. (1989). Teacher education students' preconceptions of teaching. *Journal of Teacher Education*, 40(2), pp.53-61.

Assessing Preservice Teachers' Problem Solving Abilities: A Case Study

Wun Thiam Yew

School of Educational Studies, Universiti Sains Malaysia

tywun@usm.my

Sharifah Norul Akmar Syed Zamri

Faculty of Education, University of Malaya

snorul@um.edu.my

Lim Hooi Lian

School of Educational Studies, Universiti Sains Malaysia

hllim@usm.my

Abstract

One cannot teach what one does not know. Teachers must have in-depth knowledge of mathematics they are going to teach. The purpose of this paper was to assess preservice teachers' problem solving abilities. The researchers employed case study research design to examine their problem solving abilities. Clinical interview technique was employed to collect the data. Materials collected for analysis consisted of audiotapes and videotapes of clinical interview, subject's notes and drawings, and researchers' notes during the interview. This paper presents the analysis of the responses of a case study, named Beng (a pseudonym), related to a particular task, Task 7: Fencing problem. Finding of the study suggests that Beng has successfully solved the fencing problem using the looking for a pattern strategy. Beng used the same strategy, namely the looking for a pattern strategy, to check the answer for the fencing problem without being probed. Nevertheless, Beng did not write any measurement units throughout Task 7. The implication of the finding was also discussed.

Keywords: preservice teachers, problem solving abilities, case study, clinical interview.