THE RELATIONSHIP BETWEEN PSYCHOSOCIAL FACTORS AND QUALITY OF WORKING LIFE AMONG INFORMATION SYSTEMS PERSONNEL

GUNA SEELAN RETHINAM.

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THE RELATIONSHIPS BETWEEN PSYCHOSOCIAL FACTORS AND QUALITY OF WORKING LIFE AMONG INFORMATION SYSTEMS PERSONNEL

By

GUNA SEELAN RETHINAM

Thesis Submitted to the School of Graduate Studies, Universiti Putra Malaysia, in Partial Fulfilment of the Requirement for the Degree of Doctor of Philosophy

September 2004
DEDICATION

This dissertation is dedicated to

My parents, parents-in-law, wife, children, Information Systems Personnel, and the community of rubber tappers in Malaysia
Increasing demand against the limited supply has forced the IS personnel to be responsible for multitasking with a higher workload. This trend appears to exert pressure and leads to dehumanised work environment which has substantial impact on their QWL. Lack of attention from management on issues related to psychosocial factors is one of the reasons. Thus, in light of humanising workplace, this research was initiated to investigate the relationship between psychosocial factors and QWL among the fastest growing workforce which will be responsible to transform Malaysia into a developed nation. A total of 453 valid responses were used from a sample of 600 questionnaires sent to randomly selected IS personnel employed in MSC organisations. The 76% of return rate was due to multiple approaches practised in collecting the survey questionnaires. The data collected were first explored using Exploratory Data Analysis (EDA) and reliability test prior to employing descriptive and inferential statistics using the SPSS.
This study found that most of the IS personnel employed in MSC organisations experience moderate to high level of QWL. Organisational support, job dimension, job control and job demand show significant positive relationship with QWL. The components of organisational characteristics (co-worker support) and job characteristics (autonomy, task identity, task significance, psychological demand, emotional demand and skill discretion) are the major contributors of QWL. All the selected psychosocial factors, namely, job dimension, job control, organisational support, and job demand, are the major contributors of QWL. However, growth need strength (GNS) was not the major contributors. The selected psychosocial variables explained 49.3% of variance in QWL. The selected socio-demographic variables; personal profile (gender, age, educational level and monthly income); professional profile (total work experience, occupational category and work practices); and organisational profile (year of operations and nationality of the workforce) show significant difference in the mean of QWL. A highly demanding job with substantial control and support creates an active working condition that provides a continuous learning environment for continuous improvement. Hence, the IS personnel experience better QWL. This study recommends that the relevant authorities take precautionary action to maintain a higher level of QWL among IS personnel. Future research should include wider scope of psychosocial variables across various industries before providing additional input for strategic human resource planning for IS personnel in the country.
Abstrak tesis yang dikemukakan kepada Senat Universiti Putra Malaysia sebagai memenuhi sebahagian keperluan untuk ijazah Doktor Falsafah

PERKAITAN ANTARA FAKTOR-FAKTOR PSIKOSOSIAL TERHADAP KUALITI KEHIDUPAN KERJA (KKK) DI KALANGAN PEGAWAI SISTEM MAKLUMAT (PSM)

Oleh

GUNA SEELAN RETHINAM

September 2004

Pengerusi : Profesor Maimunah Ismail, Ph.D

Fakulti : Pengajian Pendidikan

Permintaan yang tinggi terhadap Pegawai Sistem Maklumat (PSM) berbanding dengan penawaran yang terhad menyebabkan mereka bertanggungjawab terhadap bebanan kerja yang berat. Aliran ini mengakibatkan tekanan dan mewujudkan suasana kerja yang bercanggah dengan kemanusian serta meninggalkan impak yang ketara terhadap kualiti kehidupan kerja (KKK). Salah satu puncanya ialah kurangnya perhatian daripada pihak pengurusan terhadap isu-isu yang berkaitan dengan faktor psikososial. Ditinjau dari sudut mewujudkan suasana kerja yang bersifat lebih berkemusan, kajian ini dilaksanakan untuk meninjau hubung kait antara faktor psikososial dan KKK di kalangan tenaga kerja yang mengalami pertumbuhan terpesat yang seterusnya akan bertanggungjawab untuk menjadikan Malaysia sebuah negara maju. Sejumlah 453 borang soal selidik telah diterima pakai daripada 600 borang yang telah dihantar secara rawak kepada pegawai-pegawai sistem
maklumat yang berkhidmat di organisasi yang bertaraf MSC. Kadar maklumbalas yang tinggi iaitu 76% adalah disebabkan oleh penggunaan pelbagai kaedah dalam mengumpul borang soal-selidik. Data yang dikumpul terlebih dahulu diteliti dengan menggunakan analisis eksplorasi data (EDA) dan ujian kesahihan sebelum statistik lanjutan dijalankan dengan menggunakan perisian (SPSS).

Hasil kajian menunjukkan bahawa PSM yang berkhidmat di MSC mempunyai tahap KKK dari peringkat sederhana hingga tinggi. Sokongan organisasi, dimensi kerja, kawalan kerja dan bebanan kerja menunjukkan perkaitan positif yang signifikan terhadap KKK. Komponen organisasi (sokongan rakan sekerja) dan sifat kerja (autonomi, identiti tugas, signifikan tugas, tekanan psikologi, tekanan emosi and kemahiran membuat keputusan) adalah faktor utama yang menyumbang kepada KKK. Kesemua faktor psikososial yang dinamakan iaitu dimensi kerja, kawalan kerja, sokongan kerja dan tekanan kerja, merupakan penyumbang utama kepada KKK. Walau bagaimanapun, keupayaan pembangunan diri bukanlah penyumbang utama. Variabel psikososial terpilih menjelaskan varians 49.3% dalam KKK. Variabel sosio-demografi; profil personal (gender, umur, tahap pendidikan dan pendapatan bulanan); profil profesional (pengalaman bekerja, kategori pekerjaan dan amalan kerja), profil organisasi (umur organisasi dan kewarganegaraan pekerja) menunjukkan perbezaan yang signifikan terhadap KKK. Tekanan kerja yang sememangnya tinggi beserta kawalan dan sokongan yang sewajarnya mewujudkan suasana kerja yang aktif. Ini memberikan
suasana kerja yang membolehkan pembelajaran berterusan untuk peningkatan berterusan yang seterusnya memungkinkan PSM menikmati KKK yang lebih baik. Kesimpulannya, kajian ini menyarankan supaya pihak yang berkaitan mengambil langkah pembaikpulihan demi mengekalkan tahap KKK yang tinggi di kalangan PSM. Kajian akan datang disarankan supaya memperluas skop faktor psikososial merentasi pelbagai industri sebelum membekalkan input tambahan bagi perancangan strategik pembangunan sumber manusia untuk PSM di negara ini.
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A special note of gratitude to the IS personnel who had given tremendous support through their response in this study. My eternal gratitude to my parents for their endless encouragement to complete my study. My deepest appreciation to my loving wife, Thennarasi Mani, who deserves the utmost recognition for her endurance and affections. Finally, my sincere apologies to my sons Master Lingges Shaswat and Master Nittesh Shaswatt for not being by their side whenever they needed me at the crucial moments of this study.
I certify that an Examination Committee met on 23rd September 2004 to conduct the final examination of Guna Seelan Rethinam on his Doctor of Philosophy thesis entitled “The Relationships between Psychosocial Factors and Quality of Working Life among Information Systems Personnel” in accordance with Universiti Pertanian Malaysia (Higher Degree) Act 1980 and Universiti Pertanian Malaysia (Higher Degree) Regulations 1981. The Committee recommends that the candidate be awarded the relevant degree. Members of the Examination Committee are as follows:

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DECLARATION

I hereby declare that the thesis is based on my original work except for questions and citations which have been duly acknowledged. I also declare that it has not been previously or concurrently submitted for any degree at Universiti Putra Malaysia or other institutions.

GUNA SEELAN RETHINAM

Date: 19th November, 2004
TABLE OF CONTENTS

DEDICATION ii
ABSTRACT iii
ABSTRAK v
ACKNOWLEDGEMENTS viii
APPROVAL ix
DECLARATION xi
LIST OF TABLES xv
LIST OF FIGURES xvi
LIST OF APPENDICES xvii
LIST OF ABBREVIATIONS xviii

CHAPTER

ONE INTRODUCTION 1
Background of the Study 1
Statement of the Problem 5
Objective of the Study 7
Research Hypothesis 8
Significance of the Study 8
Scope and Limitation of the Study 11

TWO LITERATURE REVIEW 15
The Definition of Quality of Working Life 15
The Dimension of Quality of Working Life 20
   Health and Well-Being 21
   Job Security 27
   Job Satisfaction 28
   Competency Development 31
   Balance between Work and Non-Work Life 33
The Definition of Psychosocial Work Factors 38
The Dimension of Psychosocial Work Factors 41
   Organisational Characteristics 42
   Job Characteristics 44
   Individual Characteristics 49
Theories and Models of Psychosocial Work Environment 56
   Adaptive Structuration Theory 57
   Computer Technology and Work Environment Theory 59
   Balance Theory of Work System 62
   Job Characteristics Model 65
   Job Demand-Control Model 68
   Effort-Reward Imbalance Model (ERI) at Work 74
   Work-Family Conflict Model 76
Comparison of Model Reviewed for this Study 77
Theoretical Framework 80
### THREE METHODOLOGY

- Research Design
- Research Framework
- Population and Sampling
- Operationalisation and Measurement of the Variables
  - Quality of Working Life (QWL)
  - Organisational Characteristics
  - Job Characteristics
  - Individual Characteristics
- The Research Instrument
- Pre-testing of Research Instrument, Validity and Reliability
- Data Collection
- Non-Response Follow-up
- Data Analysis
  - Exploratory Data Analysis
  - Descriptive Statistics
  - Pearson Correlation
  - Multiple Regression
  - Independent Sample t-Test
  - One-Way ANOVA
  - The Level of Significance

### FOUR FINDINGS

- Characteristics of QWL
- Overall QWL
- Characteristics of the Components of QWL
- Characteristics of the Psychosocial Factors
  - Organisational Support
  - Job Dimension
  - Job Demand
  - Job Control
  - Growth Need Strength (GNS)
- The Relationship between Psychosocial Factors and QWL
  - The Relationship between Organisational Support and QWL
  - The Relationship between Job Dimension and QWL
  - The Relationship between Job Demand and QWL
  - The Relationship between Job Control and QWL
  - The Relationship between GNS and QWL
- Major Contributors of QWL
  - Contributor of the Components of Psychosocial Factors
  - Contributor of the Psychosocial Factors
- Comparison of QWL on Selected Socio-Demography
  - Personal Characteristics of the Respondents
  - Professional Characteristics of the Respondents
  - Profile of the Respondents' Organisations
- Work Condition
### LIST OF TABLES

<table>
<thead>
<tr>
<th>Table</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Employment Demand-Supply in ICT Sectors for the Period of 1991-2005</td>
</tr>
<tr>
<td>2</td>
<td>Summary of Operationalisation of the Variables in the Study</td>
</tr>
<tr>
<td>3</td>
<td>Summary of the Research Instrument and the Sources of the Dependent Variable</td>
</tr>
<tr>
<td>4</td>
<td>Summary of the Research Instrument and the Sources of the Independent Variables</td>
</tr>
<tr>
<td>5</td>
<td>Reliability Coefficients of the Study Variables</td>
</tr>
<tr>
<td>6</td>
<td>Characteristics of the Components of QWL</td>
</tr>
<tr>
<td>7</td>
<td>Characteristics of the Psychosocial Factors</td>
</tr>
<tr>
<td>8</td>
<td>Relationship between Psychosocial Factors and QWL</td>
</tr>
<tr>
<td>9</td>
<td>Multiple Regression Results of the Components of Psychosocial Factors on QWL</td>
</tr>
<tr>
<td>10</td>
<td>Multiple Regressions Results of the Psychosocial Factors on QWL</td>
</tr>
<tr>
<td>11</td>
<td>The Differences in QWL based on Gender and Marital Status of the Respondents</td>
</tr>
<tr>
<td>12</td>
<td>The Differences in QWL between Personal Profiles of the Respondents</td>
</tr>
<tr>
<td>13</td>
<td>The Differences in QWL between Professional Profiles of the Respondents</td>
</tr>
<tr>
<td>14</td>
<td>The Differences in QWL between Respondents’ Organisational Profile</td>
</tr>
<tr>
<td>15</td>
<td>Summary of the Objectives, Selected Variables, Measurement Scale and Data Analysis</td>
</tr>
</tbody>
</table>
## LIST OF FIGURES

<table>
<thead>
<tr>
<th>Figure</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Theoretical Model on Computer Technology and Work environment</td>
<td>60</td>
</tr>
<tr>
<td>2</td>
<td>The Balance Theory of Work System</td>
<td>63</td>
</tr>
<tr>
<td>3</td>
<td>Job Characteristic Model</td>
<td>65</td>
</tr>
<tr>
<td>4</td>
<td>Job Demand-Control Model</td>
<td>71</td>
</tr>
<tr>
<td>5</td>
<td>The Effort-Reward Imbalance Model at Work</td>
<td>74</td>
</tr>
<tr>
<td>6</td>
<td>Theoretical Framework of the Study</td>
<td>81</td>
</tr>
<tr>
<td>7</td>
<td>Research Framework showing the Relationship between Independent Variables (Psychosocial Factors and Socio-Demography) and Dependent Variable (QWL)</td>
<td>87</td>
</tr>
<tr>
<td>8</td>
<td>Sampling Procedure</td>
<td>93</td>
</tr>
<tr>
<td>9</td>
<td>Framework showing the Significant Contributors of Components of Psychosocial Factors towards QWL</td>
<td>144</td>
</tr>
<tr>
<td>10</td>
<td>Working Condition in ICT Industries</td>
<td>162</td>
</tr>
</tbody>
</table>
LIST OF APPENDICES

APPENDIX

A Research Questionnaire
B The Valid Response from the Sampled Population
C Correspondences
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPF</td>
<td>Employment Provident Fund</td>
</tr>
<tr>
<td>ERI</td>
<td>Effort-Reward Imbalance Model</td>
</tr>
<tr>
<td>EWON</td>
<td>European Foundation for the Improvement of Living and Work Conditions</td>
</tr>
<tr>
<td>GNS</td>
<td>Growth Need Strength</td>
</tr>
<tr>
<td>HRDF</td>
<td>Human Resource Development Fund</td>
</tr>
<tr>
<td>ICT</td>
<td>Information and Communication Technology</td>
</tr>
<tr>
<td>IDC</td>
<td>International Data Corporations</td>
</tr>
<tr>
<td>ILO</td>
<td>International Labour Organisation</td>
</tr>
<tr>
<td>IS</td>
<td>Information System</td>
</tr>
<tr>
<td>ISI</td>
<td>Information Society Index</td>
</tr>
<tr>
<td>IT</td>
<td>Information Technology</td>
</tr>
<tr>
<td>JCM</td>
<td>Job Characteristic Model</td>
</tr>
<tr>
<td>JDCM</td>
<td>Job Demand-Control Model</td>
</tr>
<tr>
<td>JDCS</td>
<td>Job Demand Control Support Model</td>
</tr>
<tr>
<td>JDS</td>
<td>Job Diagnostic Survey</td>
</tr>
<tr>
<td>JFMA</td>
<td>Japan Facility Management Association</td>
</tr>
<tr>
<td>KWX</td>
<td>Knowledge Workers Exchange</td>
</tr>
<tr>
<td>MDC</td>
<td>Multimedia Development Corporations</td>
</tr>
<tr>
<td>MSC</td>
<td>Multimedia Super Corridor</td>
</tr>
<tr>
<td>OECD</td>
<td>Organisation of Economic Cooperation and Development</td>
</tr>
<tr>
<td>QWL</td>
<td>Quality of Working Life</td>
</tr>
<tr>
<td>R&amp;D</td>
<td>Research and Development</td>
</tr>
<tr>
<td>SCB</td>
<td>Sweden Capital Board</td>
</tr>
<tr>
<td>SME</td>
<td>Small Medium Size Enterprises</td>
</tr>
<tr>
<td>SPSS</td>
<td>Statistical Packages for Social Sciences</td>
</tr>
</tbody>
</table>
CHAPTER ONE

INTRODUCTION

Background of the Study

Global economic trends and the strong determination of the Malaysian government have made ICT to become the veins and arteries of contemporary organisations. The integration of ICT into their business process has made the organisation to restructure their existing policies in order to remain competitive in the global economy (Kalakota & Robinson, 2001). This trend provides an opportunity to the organisations to explore, expand and sustain their business operations globally (Byrd, 2001; Ernst & Young, 2001). Perhaps, it creates a demand for a new workforce in employment market. One of the fastest growing workforces in this work environment is the Information systems (IS) personnel. They are involved in the acquisition, processing, storage of vocal, pictorial, textual and numerical information by means of information and communication technologies which demand extensive use of ICT skills.

Subsequently, ICT changes the components of work and its environment. The factors that influence the changes in the components of work and its environment are also able to influence the individual employee. These factors are called psychosocial factors. The changes of psychosocial factors could lead to positive or negative consequences to the respective
employee. Positive effects include learning opportunities, interesting new tasks and opening of opportunities for competence development as they share new responsibilities, use new tools and technologies (Jarvenpaa & Eloranta, 2001). On the other hand, negative effects could result from working in fast growing industries and using complex ICT tools that require the handling of many tasks with higher responsibilities. Working with ICT all day long to meet the tight deadlines may also create more complex and demanding role for IS personnel. Consequently, they face irregular surges in demand (Business Decision Limited, 1999).

These changes in the work environment may cause cumulative effects on health and performance (Borg, Kristensen & Burr, 2000). For example, broad array of ICT that links information systems and people, downsizes the management layer towards a flatter and leaner organisational structure and design (Klein, Chi & Klibaner, 2000; Fulk & DeSanctis, 1995). IS personnel are also required to work independently with multinational teams round the clock regardless of their location throughout the world (Evans & Wurster, 2000). Thus, it allows them to carry out multiple tasks and simultaneously report to more than one superior. This flexible relationship creates new employment trends that make it possible for the sharing of work around the time zone to capitalize on skills and the expertise of some highly skilled workforce at a lower cost (Industrial Relations Services, 2000; KPMG, 1998; Merill, 2000). Such a working environment exposes the IS personnel to high task complexity.
Robbins (2001) argued that the complexity of task variety among IS personnel without substantial coping strategies causes negative consequences that lead to poor quality of working life (QWL). High strain work environment, job insecurity, poor personal development in the job as well as greater imbalance of work with non-work activities are among the negative consequences resulting from the task complexity which lead the IS personnel to experience poor QWL. Therefore, understanding the psychosocial changes in work environment is essential to provide substantial strategies to counteract such surges (Andries et al., 2002; De Jonge et al., 2000; Marmot et al., 1999) especially in the technologically emerging societies, like in Malaysia.

The concern has become crucial among the ICT industry in Malaysia. Table 1 shows demand and supply of the skilled IS Personnel in Malaysia for the period of 1991-2005.

Table 1: Employment Demand-Supply of Skilled IS Personnel for the Period of 1991-2005

<table>
<thead>
<tr>
<th>Malaysia Plan Period (Year)</th>
<th>Demand</th>
<th>Supply</th>
<th>Shortage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sixth Malaysia Plan (1991-1995)</td>
<td>27,174</td>
<td>20,166</td>
<td>7,008</td>
</tr>
<tr>
<td>Seventh Malaysia Plan (1996-2000)</td>
<td>108,000</td>
<td>29,464</td>
<td>78,536</td>
</tr>
<tr>
<td>Eight Malaysia Plan (2001-2005)</td>
<td>181,600</td>
<td>137,746</td>
<td>43,854</td>
</tr>
</tbody>
</table>

Sources: Government of Malaysia, 1995; 2001

The ICT industry has been enjoying the highest employment growth of 17.2% in 2003 and is expected to register a 23% growth in 2004 compared
to other industries (Knowledge Worker Exchange, 2004). Beyond expected rapid development in the ICT sectors has created a vacuum in the employment trend. The employment demand for the skilled IS personnel is expected to be greater in the year 2005. The continuous growth in ICT sectors is expected to demand 306,000 personnel by 2010 (Government of Malaysia, 2000). The Malaysian Employer Federation (MEF) reported that 27.5% of the 356 companies surveyed faced a shortage of skilled ICT workers (Malaysian Employers Federations, 2001). However, by September 2004, it has been reported that 17000 IT graduates were unemployed (Knowledge Worker Exchange, 2004). The mismatch of skills required by employers is the most prominent factor that causes the unemployment of IT graduates, even though there is shortage in the employment market (Beaumont et al., 2004). Realising this crucial fact, the Malaysian government through the Human Resource Development Berhad has taken the initiatives to equip the fresh graduates with essential ICT skills. This unwavering commitment has significantly forced them to develop ICT skills to meet the employment demand.

No doubt, all other occupations have a capacity to influence the work and non-work life balance, but some occupations are potentially more influential than others. Bagnara, Mariani & Parlangeli (2001) have reported that work within the service industry, those with high technology and that undergoing structural job changes are potentially more stressful than others. Martinsons & Cheung (2001) stated that continuous changes in psychosocial work factors directly or indirectly affected the IS personnel. As
these changes are demanding the IS personnel to perform, an effective measure to handle its consequences is the responsibility of the organisations. Therefore, one of the ongoing concerns among the ICT industries is to mitigate the effects of changes in psychosocial work environment on job satisfaction, work performance, reliability, health and comfort. Thus, human resource issues related to providing a better QWL are important to attract and retain prospective IS personnel in the demanding employment market.

Statement of the Problem

Malaysia is experiencing the crucial moment in materialising its ICT agenda. The difficulty in meeting the increasing demand of skilled IS personnel against the limited supply is one of the major problems faced by the Malaysian organisations in recent years. This situation has forced many ICT organisations to capitalise on small IS workforce to undertake the ever-expanding work responsibilities that demand long hours of physical presence in front of the computer (Duxbury, Higgins & Johnson, 1999). This trend appears to exert pressure and leads to a dehumanised work environment (Watson et al., 2003). Dehumanised work environment influences the life style of IS personnel, which has substantial impact on their QWL (Dhondt, Kraan & Sloten, 2002; Bradley, 2001; Lau, et al., 2001).

One of the reasons for a dehumanised workplace is the lack of attention from the management on issues related to psychosocial work factors
(Watson et al., 2003). The nature of IS personnel's work that requires them to work on various tasks simultaneously and report to numerous superiors is bound to force them to complete the jobs within a tight schedule. It means that the integration of ICT in the workplace is not aimed to improve the current work practices but rather to exploit the IS personnel towards a higher organisational performance (Lau et al. 2001; Waterson et al., 1999; Clegg et al., 1997). Steijn (2001) states that their nature of work is often not designed with the human factor in mind. Thus, in light of reports of increasing dehumanisation of the workplace, improving the QWL should be the focus of the national policy making. QWL, especially among the IS personnel is important as they are becoming a nucleus of this high growth industry of the future which can make the VISION 2020 to become a reality.

Although the concepts of ICT, its antecedents and outcomes have been researched extensively, little attention has been devoted to understand the QWL and its relationship with psychosocial factors, particularly among IS personnel. The need for an increase in effort on this research and to improve the understanding of the QWL clearly indicates a knowledge gap in the field of social science, specifically human resource development. Therefore, it warrants a research that focuses on the relationship between psychosocial factors and QWL particularly among the fastest growing workforce which will be responsible in transforming Malaysia into a developed nation.