THE EFFECTS OF ORGANISATIONAL FACTORS AND EXTRA-ORGANISATIONAL FACTORS ON WORK STRESS

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ABSTRACT

Work stress has been considered as an important issue relating to workers’ day-to-day activities at the work place. In any profession – doctors, teachers, police officers, lawyers and executives – workers are facing enormous pressure from work demands, which results in stress, and burn out. In this millennium, work stress can be considered as a disease of the century. One shall not escape from stress. There are various factors that contribute to work stress. These stem from both organisational and extra-organisational contexts. The aim of this paper is to investigate the impact of both organisational and extra-organisational factors on work stress among married female teachers. The study found that the three organisational factors, namely, management and administration, pupil recalcitrance and time demands were significantly correlated with work stress. As for the extra-organisational factors, only the personal problems variable was found significantly correlated with work stress. A number of studies on teacher stress have been commissioned over the past decade by the major teaching unions.

Keywords: organizational factors, extra-organizational factors, work stress

INTRODUCTION

The Malaysian education system has undergone rapid change. These changes are made to cater for the challenging needs of the society but unfortunately, teachers have found that insufficient support has been offered to help cope with this. Evidence found in literatures has suggested that teacher work stress is related to both organisational and
extra-organisational factors (e.g., Newton and Keenan, 1990; Kyriacou and Sutcliffe, 1978; Brown and Ralph, 1992). In the teaching profession, organisational factors include curriculum demands, student recalcitrance, time demands, poor working conditions, poor school management and administration, and lack of parental support. Extra-organisational factors include family, personal and social problems (Dua, 1994). As both are equally important stressors, which can bring about ill health, dissatisfaction among the teachers and harm to the organisation, it is thus logical to extend the study and include both organisational factors and extra-organisational factors in the school environment.

With a better understanding of the relationship between organisational and extra-organisational factors and teachers' stress, critical factors can be identified. Once identified, it will bring about greater awareness among all those concerned, be it at the ministry, state, district and school levels, the community at large and most importantly, the teachers. Subsequent steps should then be taken to assist the teachers in lessening their occupational stress. Options such as coping strategies involving role reduction and cognitive restructuring can be considered. Every possible effort should be taken to ensure the general well-being of teachers who form the backbone of the formal education process.

LITERATURE REVIEW

Seyle (1956) defines stress as a non-specific response of the body to any demands made on it to adapt (what he called the General Adaptation Syndrome). Later, Monet and Lazarus (1977) defined stress as external and/or internal demands (which) tax or exceed the adaptive resources of the individual. Stress is person-specific. What is stressful to one person is not necessarily stressful to another (AMMA, 1987), and one person’s stress may be another person’s adrenalin (Brown and Ralph, 1992).

According to Kyriacou and Sutcliffe (1978), teacher stress is a response of negative effect (such as anger or depression) by a teacher which is usually accompanied by partially pathogenic physiological and biochemical changes (such as increased heart rate or release of adrenocorticotropic hormones into the bloodstream) resulting from aspects of the teachers’ job and mediated by the perception that the demands made upon the teacher constitute a threat to his self-esteem or well-being, and by coping mechanisms activated to reduce the perceived threat.

Studies have also found a number of psychological variables that influence teachers’ vulnerability to stress or burnout (Farber, 1991). Most studies reported that teachers with an internal locus of control are less vulnerable to stress, but the findings from Newton and Keenan (1990) indicate otherwise; that is increase in job demands such as conflicts and quantitative workloads are associated with increase in strain among internals too.
Locus of control is a personality variable that concerns people’s generalised expectancies that they can or cannot control reinforcements in their lives. People who hold expectancies that they can control reinforcements are considered to be internals, and people who hold expectancies outside forces or luck controls reinforcements are considered to be externals (Spector and O’Connell, 1994).

Organisational Factors

An important part of our lives which cause a great deal of stress is our job or our work. Work-related stress is a growing concern because it has significant economic implications for the organisations through employee dissatisfaction, lowered productivity and lowered emotional and physical health of the employees (Matteson and Ivancevich, 1987). Laughlin’s (1984) findings reported that as high as 34 per cent of the teachers perceive teaching as very stressful and extremely stressful; 21 per cent are fairly dissatisfied and very dissatisfied with teaching.

A study conducted by Kyriacou and Sutcliffe (1978) showed that about 20 per cent of the 257 teachers in the sample reported that being a teacher is either very stressful or extremely stressful. In addition, all the listed 51 sources of stress were positively correlated with self-reported teacher stress (ranging from 0.120 to 0.550 all p < 0.05). The mean ratings of the stressfulness range from M = 1.965 (pupils’ poor attitudes to work) to M = 0.953 (poor school facilities). The principal components analysis of the sources of stress indicated that these may be described largely in terms of four orthogonal factors: “pupil misbehaviour”, “poor working conditions”, “time pressures” and “poor school ethos”. This finding supports work elsewhere (e.g., Coburn and Jovaisas, 1975; Rogers, 1977), indicating that sources of stress are multidimensional rather than unidimensional.

In a series of four surveys of teachers serving in state schools in Australia, Laughlin (1984) explored the relationships among the various factors that gave rise to stress and the biographical characteristics of the teachers. He isolated the stress factors, namely, pupil recalcitrance, time demands, poor school tones, community antagonism and curriculum demands. In comparison with the work done by Kyriacou and Sutcliffe (1978), the first three factors are similar while Laughlin has added two other factors, namely, community antagonism and curriculum demands. The study was also supported by past researches such as Brown and Ralph (1992), as well as Solmon and Feld (1989).

1 Include matters like inadequate disciplinary policy of school, lack of consensus on minimum standards, attitude and behaviour of the headmaster, teachers and pupils, poorly motivated pupils, lack of recognition for extra work, trying to uphold or maintain standards, and lack of effective consultation.

2 Poor school tone is composed of the variables “lack of encouragement to be involved in effective decision making,” “disenchantment with the school administration and/or staff members” and “lack of recognition for teachers’ contribution in teaching and/or organization.”
Roselina A. Saufi, Leong K.T., Chua B. S. & D. Razali D. E.

Borg (1990) summarises the sources of teacher stress into five major categories of pupil behaviour, workload and time pressures, working conditions, relationship with colleagues and school ethos (e.g., lack of agreement on standards). Borg et al. (1991) also reported greater teacher stress due to the factors of “pupil misbehaviour” and “time/resource difficulties.”

Tuettemann and Punch (1992) carried out a study on psychological distress on secondary school teachers. They concluded that the five stressors, namely, inadequate access to facilities ($r = 0.25$), student misbehaviour ($r = 0.15$), excessive societal expectations ($r = 0.21$), intrusion of work into out-of-hours time ($r = 0.17$) and total workload ($r = 0.10$), correlate positively and significantly (at $p < 0.01$) with teacher distress. These stressors together with the factors of “influence/autonomy”, “efficacy/achievement”, “colleague support” and “praise/recognition” account for 22 per cent of the variance between female teachers.

Study by Boyle et al. (1995) attests to the multidimensional nature of the sources of teacher stress construct, with workload and student misbehaviour accounting for most of the variance in predicting teaching stress. Gordon (2002) suggested that management is a prevalent stressor, particularly for men and teachers in urban schools. Gordon also suggested that students’ apathy, behaviours, attitudes and lack of motivation to learn were pervasive stressors for teachers.

In Malaysia, there have been numerous reports regarding stress experienced by the teachers. Chandra (1986) highlighted the mental stress experienced by primary school teachers due to excessive workload such as unmanageable class size, huge amount of paper work and additional burden in organising co-curricular activities. Ramanathan (1987) reported that teaching is a profession that produces its own assortment of tensions. Teaching carries with it a set of tensions and responsibilities unique to the profession. He also commented on the additional work, pressure and tension experienced by the teachers due to changes that have taken place over the years. The National Union of the Teaching Profession (NUTP) secretary-general commented that the teachers’ stress may be caused by their being posted to a new environment and having to cope with a heavy workload. The UUTP has received many requests from teachers seeking advice and support (The Star, 1998). Siti (1982) in her study on the effects of stress on teachers reported that a majority of the educators are experiencing moderate level of stress. Similar finding is also reported by Kassim (1990) in a study conducted among teachers teaching the integrated curriculum in the Malaysian secondary school.

Extra-organisational Factors

The interaction between home and work and the “juggling” often create stress. There are potential stressors that exist in the life of the teacher, outside the work arena and affecting their behaviour at work, which require consideration when assessing the sources and
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Extra-organisational sources of stress include family problems (Pahl and Pahl, 1971), life crisis (Dohrenwend and Dohrenwend, 1971), financial difficulties, conflict of personal beliefs with those of the company and the conflict of company with family demands (Cooper and Marshall, 1976). Cooper and Marshall (1976: p.22) further elaborated that things such as family problems and life crisis are important potential stressors since they act in a feedback loop between work and the outside environment: problems outside work → affect → individuals at work → exacerbate → problems outside work”. If the close interrelationships between private life and work in western society are considered, it can be expected that stressful extra-organisational life events would exert negative effects on feelings of well-being at work and consequently lead to a high degree of job tension. (Vossel and Froehlich, 1979).

The findings of the Vossel and Froehlich (1979) study clearly provide support for the assumption that not only that there is a relationship between life stress and physical or psychological disorders but that there is also a relationship between life stress – conceptualised in terms of negative life-changing events – and other kinds of behavioural manifestations. Subjects experiencing negative life-changing events having a higher negative change score (NCS) record a higher mean on a job tension scale, JT (M = 33.73, SD = 6.17) while those having a lower NCS record a lower mean on JT (M = 27.07, SD = 4.93).

With demands within the family clashing with work responsibilities, the home or work stress is likely to spill over to other spheres of life (Ray and Miller, 1994). This spillover occurs when the strain produced by stressors in one domain provokes stressful situations in another domain (Greenhaus and Parasuraman, 1987). Most research on spillover focused on work spillover into family life (e.g. Burke, 1989; Small and Riley, 1990; Staines and Pleck, 1983). Ray and Miller (1994) commended that although recommended (Staines and Pleck, 1983), far less attention has been paid to the effects of spillover from these stressors to the outcomes in the workplace (Bhagat, 1983; Bhagat and Chassie, 1981; Greenhaus and Parasuraman, 1987).

The Influence of Locus of Control on Work Stress

Cooper et al., (1994); Davey, (1994), Wilson et al., (1990) reported that a lot of studies on personal traits of individuals (locus of control and Type-A personality) had been evident of affecting occupational stress. Warr and Wall (1975) suggested that in investigating the relationship between stressors and stress, the personality characteristics rather than biographical characteristics of the individual may be the more important determinant of individual differences in teacher stress. In the teaching profession, studies have also found a number of psychological variables that influence teachers’ vulnerability to stress or burnout. For example, teachers with an external locus of control – those who feel
that their destiny is not in their own hands but rather is controlled by external events—
are more likely to suffer from burnout (Cadavid, 1986; Fielding, 1982; McIntyre, 1984;
Marlin, 1987; Meehling, 1982; Stone, 1982; and Zager, 1982).

Laboratory studies have also suggested that internals will tend to repress any strain
they experience (Rotter, 1975). These findings are consistent with much recent research
in psychology suggesting that, of all the factors explaining stress, controllability may
be most important (Taylor, 1990). Even when studies are controlled for demographic
variables such as age, sex, race, years of teaching, school level, and marital status,
personality variables such as locus of control, anxiety and self-esteem remain significant
predictors of teacher stress (Meehling, 1982).

Study in locus of control by Halpin et al. (1985) has also found internal teachers who
believe in their personal efficacy in influencing student performance and behaviour with a
lower degree of stress. A study carried out by Soh (1986) concluded that internal secondary
school teachers have lower means for stress from student behaviour and stress in general.
Some longitudinal evidence suggests that LOC may moderate the impact of work-related
stressors on mental health outcomes (Parkes, 1991). In a student-teacher sample, Parkes
(1991) found that an internal LOC buffers the impact of workplace stress.

Individuals with external locus of control, who do not believe that they control important
aspects of their environments, will find the work environment to be more threatening and
stressful (Payne, 1988; Robinson and Skarie, 1986). Empirical support can be found for
this proposition in that locus of control has been shown to correlate with job stressors
and strains (e.g. Hendrix, 1989; Newton and Keenan, 1990; Robinson and Skarie, 1986;

However, in the study carried out by Newton and Keenan (1990), who examine the
moderating effect of locus of control, or I-E, on the relationship between changes in job
demands and changes in psychological strain across time, the results are more surprising.
Their findings indicate that an increase in certain job demands such as role conflict and
quantitative workload is in fact associated with greater increase in strain among internals.
It is apparent that stress is not experienced uniformly by teachers, but varies from one
individual to another (Albertson and Kagan, 1987; Dworkin et al., 1990; Worrall and
May, 1989).

THE STUDY AND THE METHODOLOGY

Considering the above factors, namely organisational, extra-organisational and locus
of control together with the fact that female teachers form a substantial proportion
in the teacher population in Malaysia, the study is thus carried out to examine the
relationship between organisational and extra-organisational variables and the level of
stress experienced by married female teachers. This study also examines the moderating
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effect of locus of control on the relationship between organisational factors and extra-organisational factors on work stress. The organisational factors are indexed in terms of school management and administration, pupil recalcitrance, curriculum demands and time demands. Extra-organisational factors are operationalised in terms of personal problems and family problems. The locus of control, grouped as either internals or externals was treated as the moderating variable. The sample of this study consisted of married female teachers. A convenient sampling of 140 married female teachers from seven government-aided secondary schools was selected. Usable data were provided by 127 teachers representing a 92.1 per cent response rate.

Instrument

The stress level experienced by an individual was measured by using questions developed by Eliot (1994). Twelve items were adopted based on relevancy to the teaching profession as well as face validity of these items. The reliability coefficient was found to be 0.85.

Eleven questions regarding organisational factors were derived from Solman and Feld (1987). The reliability coefficients of the four dimensions of school management and administration, pupil recalcitrance, curriculum demands and time demands were found to be 0.76, 0.51, 0.82 and 0.61 respectively. Six questions on extra-organisational factors were developed to explore the respondents’ perception of personal and family problems on work stress. The reliability coefficients were found to be 0.56 and 0.64.

The moderating variable, locus of control, was measured using eleven items adopted from the Internal-External Scale developed by Rotter (1966). The reliability coefficients were 0.52 for internal locus of control and 0.64 for external locus of control. All the three measures were six-point ordinal scale questions.

RESULTS

School Management and Administration

As shown in Table 2, the results show that poor school management and administration are positively related to work stress. The relationship is found to be significant at the 1% level (beta = 0.3875; p = 0.0000). The result suggested that the greater the perception of poor school management and administration the greater is the degree of stress.

Pupil Recalcitrance

The results show that pupil recalcitrance is positively related to work stress. The relationship is found to be significant at the 1% level (beta = 0.2284; p = 0.0010),
suggesting that the greater the perception of pupil recalcitrance, the greater is the degree of stress.

The respondents’ profile is shown in Table 1.

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<th>Table 1 Sample profile</th>
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<td>Teacher</td>
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<td>Teacher with Children</td>
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<td>Teacher with No Children</td>
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N, N₁, N₂ = Number of Teachers; M = Mean; SD = Standard Deviation

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<th>Table 2 Multiple regression analysis for all six factors</th>
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<tr>
<td>R square = 0.4678</td>
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<td>0.1392</td>
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<td>Personal Problems</td>
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<td>Family Problems</td>
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<td>0.985</td>
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Curriculum Demands

The results show that the relationship is not significant at the 5% level (p = 0.2047), suggesting that that curriculum demands are not related to work stress.
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**Time Demands**

The results show that time demands are positively related to work stress. The relationship is found to be significant at the 5% level (beta = 0.1392; p = 0.044), suggesting that the greater the perception of excessive time demands, the greater is the degree of stress.

**Personal Problems**

The results show that personal problems are positively related to work stress. The relationship is found to be significant at the 1% level (beta = 0.3316; p = 0.0000), suggesting that the greater the perception of the demands from personal problems, the greater is the degree of stress.

**Family Problems**

The results show that the relationship is not significant at the 5% level (p = 0.3267), suggesting that that family problems are not related to work stress.

| Table 3 Multiple regression analysis for organisational factors and extra-organisational factors |
|-----------------------------------------------|-----------------|-----------------|
| Independent Variables                        | Adjusted R Square | Significance F   |
| Organisational Factors                       | 0.3697           | 0.0000          |
| Extra-organisational Factors                 | 0.2128           | 0.0000          |

**Organisational Factors and Extra-organisational Factors**

Referring to Table 3, the results show that the relationship exists at the 1% significance level (significance F = 0.0000), indicating that both organisational as well as extra-organisational factors play significant roles in contributing to work stress. However, the adjusted R square based on the organisational factors is 0.3697 while the adjusted R square based on the extra-organisational factors is 0.2128. The results suggest that organisational factors are better predictors of work stress than extra-organisational factors.

As shown in Table 4, the results show that no relationship exists at the 5% significance level, therefore the relationship between all the six independent variables and work stress are not moderated by internal locus of control.
Table 4 Key multiple regression indicators

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DISCUSSION

From the study, the level of work stress perceived being experienced by married female teachers has a mean of 2.47 with a standard deviation of 0.58, which reflects a marginally low stress level. This study is also able to show that work stress is positively related to the three dimensions of organisational factors which are school management and administration, pupil recalcitrance and time demands. School management and administration are significant at the 1% level with the highest standardised beta coefficient of 0.3875. This is consistent with Solman and Feld’s (1987) study which finds that poor school tone appears to be a particularly influential source of stress. The same study also commented that these variables appear to be fairly common “bureaucratic” concerns, but perhaps they assume greater importance in the schools where teaching duties override all other matters and effectively remove most teachers from the exercise of administrative power. The findings also supported Laughlin’s (1984) findings.

The relationship between pupil recalcitrance and work stress and between time demands and work stress are significant at p < 0.05, with standardised beta coefficients of 0.2284 and 0.1392 respectively. The findings are broadly in keeping with those found in studies carried out by Laughlin (1984), Solman and Feld (1989), Borg et al. (1991) and Tuettemann and Punch (1992).
This study is also able to discover the positive relationship between work stress and personal problems. This is consistent with reports made by Vossel and Froehlich (1979), Bromet, et al. (1988), Dua (1994) and Travers and Cooper (1996). A married female teacher is usually part of a dual-career couple. Dual-career family brings along with it related personal problems such as role conflicts, additional demands due to homemaking, and relationship dilemmas. Thus, it is understandable that personal stressors can easily lead to stress at the workplace.

Between organisational and extra-organisational factors, the multiple regression analysis shows that the organisational factors, has the higher adjusted R square value of 0.3697 compared to the extra-organisational factors, which have an adjusted R square value of 0.2128. This indicates that the former is more important in predicting the variability in work stress and implies that married female teachers do not perceive extra-organisational factors, to be better predictors of work stress than organisational factors. The regression coefficients of the three organisational factors of school management and administration, pupil recalcitrance and time demands and the extra-organisational factor of personal problems are 0.24, 0.15, 0.11 and 0.25 respectively, implying that all the four factors have positive impact on work stress. In addition, with a coefficient of determination ($R^2$) of 0.47, this shows that 47 per cent of the variation in work stress can be explained by these four factors.

The above result thus shows that married female teachers do not perceive the extra-organisational factors, to be more stressful than organisational factors. This is not consistent with reports from Pleck (1977) and Campbell et al. (1994). The reason may be due to the fact that events occurring at home may be both a source of stress and support similar to the relationship at work, and may also mitigate or exacerbate the effects of stressors experienced in the work environment as suggested by Travers and Cooper (1996). The majority of the teachers in the present study are graduates (74%) with an average age of 38.6 years. This implies that with their educational level and at this stage in life, they are financially and emotionally stable. As a result, they may experience less personal problems arising from role pressure or role overload. In a study by Cooke and Rousseau (1984), the results revealed that although the demands of a family conflict with the demands of work, the family also provides comfort and support to the teachers. This enables them to overcome some of their non-job related problems that are usually associated with stress better than job-related problems.

In addition, the study is not able to show that there is any moderating effect on the relationship between the four individual dimensions of organisational factors and work stress among married female teachers with an internal locus of control. Similarly, no moderating effect is found in the relationship between the two individual dimensions of extra-organisational factors and work stress among married female teachers with an internal locus of control. This is contrary to researches carried out by Spector and
O’Connell (1994). Newton and Keenan (1990) who examined the moderating effect of locus of control, or I-E on the relationship between changes in job demands and changes in psychological strain across time, although found that increases in certain job demands such as role conflict and quantitative workload are in fact associated with greater increases in strain among internals.

This finding may explain the result that the moderating variable, locus of control, is not significant in moderating the relationship between organisational factors, extra-organisational factors and work stress. Teachers in schools are now faced with increasingly higher job demands such as having to deal with large classes, more serious disciplinary problems as well as handling additional non-teaching workload such as doing more clerical jobs and covering for absent colleagues. With all these additional demands made on the teachers, internals may not experience lesser strain associated with job and non-job stressors compared to externals.

Another possible explanation is related to the teachers’ age in this study. Age is an important characteristic that may modify a teacher’s response to stress. This is because at each stage in life an individual may experience a particular vulnerability, and/or a particular mechanism of coping (McLean, 1979). Feitler and Tokar (1982) claimed that teachers’ stress levels do vary with age and location of the school. More specifically, teachers between the ages of 31 and 44, and urban teachers report higher levels of stress. The teachers in this study have an average age of 38.6 years with a standard deviation of 8.9 years. Moreover, six of the seven schools in the study are located in the urban area. As such, teachers in this sample may actually be experiencing high levels of stress. Hence, the personality differences may be buried with the problems of urban dwelling which seems to be more overriding than the individual differences in locus of control.

CONCLUSION

The data indicate that married female teachers perceive work stress to be positively and significantly related to the three organisational factors, namely, school management and administration, pupil recalcitrance, and time demands. They also perceive stress at the workplace to be positively and significantly related to the extra-organisational factor – personal problems. However, the study is not able to show that the relationships between the four individual organisational factors on work stress are moderated by internal locus of control. Similarly, there is no moderation on the relationships between the two individual extra-organisational factors and work stress by internal locus of control.

The stress of balancing myriad roles played within and outside the organisation has received limited attention. It is even less in a non-western society such as in Penang, Malaysia. In sum, the perceived work stress experienced by the married female teachers in this study are said to stem from both job-related and non-job related stressors within the
local school setting. The results confirm the significant and positive associations between the three organisational factors and work stress as well as the extra-organisational factor—personal problem and work stress. Given the multidimensional nature of stress, this analysis reinforces the need to explore other correlations in these two arenas which can better predict work stress.

Limitations

The present analysis is based on a sample consisting of 127 married female teachers teaching in seven secondary schools on the Island of Penang, Malaysia. The island has a total of 1,265 married female teachers in May 1998. As such, a larger sample is expected to provide a statistically firmer base to assess the relationship between organisational factors, extra-organisational factors and work stress. The design of this study is cross-sectional. As such, the perceived work stress may be situational based on the experience and the environment at a certain time. To explore further the relationship and to gain a better insight into the work stress experienced by this group of teachers, a longitudinal design should be employed. It would be of benefit to the education service if empirical studies can be carried out to include more factors such as work environment and relationship with colleagues in relation to work stress to provide a better understanding of stress experienced by married female teachers within the local setting. It is also important to determine whether the findings hold true in larger samples that are more heterogeneous with regard to work and family situations.

REFERENCES


Cadavid, V. (1986). Locus of control and pupil control ideology as related to the dimensions of burnout of special education vis-a'-vis regular classroom teachers. Doctoral dissertation, Southern Illinois University, Southern Illinois, USA.


