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IS FACET-LEVEL EMOTIONAL STABILITY USEFUL IN PREDICTING JOB PERFORMANCE? A META ANALYTIC INVESTIGATION OF FACET-LEVEL EMOTIONAL STABILITY

BY

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THESIS

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ABSTRACT

There has been much debate about the appropriate level of specificity at which to measure personality, but no consensus has been reached regarding the usefulness of facet-level Emotional Stability in predicting job performance. Research in this area has been impeded by the lack of an agreed upon facet structure for Emotional Stability. In the current article, the authors used a three facet-structure for Emotional Stability (Well-Being, No Anxiety, and Even Temperedness) to conduct a series of meta-analyses to determine if facet-level Emotional Stability is useful in predicting different types of job performance (overall performance, task performance, contextual performance, and counterproductive work behavior (CWB)). It was found that facet-level Emotional Stability explained additional variance beyond global Emotional Stability for task performance and CWB. The moderating effects of job complexity were also examined.

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CHAPTER 1

INTRODUCTION

Since the early 1990s organizational science has taken full advantage of the "Big Five" personality dimensions as a common structure with which to study personality at work. As evidence of this, over 15 meta-analyses have related Big Five personality dimensions to work behavior (Barrick & Mount, 1991; Barrick, Mount, & Judge, 2001; Berry, Ones, & Sackett, 2007; Clarke & Robertson, 2008; Dudley, Orvis, Lebiecki, & Cortina, 2006; Fuller & Marler, 2009; Hogan & Holland, 2003; Hough et al., 1990; Hurtz & Donovan, 2000; Judge, Bono, Ilies, & Gerhardt, 2002; Judge, Heller, & Mount, 2002; Judge & Ilies, 2002; Joseph & Newman, 2010; Salgado, 2002; Tett, Jackson, & Rothstein, 1991; Zhao & Seibert, 2006). While the use of the Big Five has promoted progress in many ways, the ubiquity of the Big Five personality structure has also restricted the level of specificity at which personality is studied in organizational psychology. That is, due to the popularity of the Big Five, personality is typically studied at the dimension-level (e.g., Extraversion, Openness, Conscientiousness, Agreeableness, and Emotional Stability) rather than at the facet-level (e.g., Even Temperedness, Well-being) of each Big Five personality construct. Recent investigations of facet-level Conscientiousness (Dudley, Orvis, Lebiecki, & Cortina, 2006; Roberts, Chernyshenko, Stark, & Goldberg, 2005) have revealed that an increased level of specificity can provide added explanatory power over the broader Big Five construct of Conscientiousness. Applying the same logic, the current paper will attempt to address the work performance implications of facet-level Emotional Stability. To date, no meta-analysis has examined the predictive power of Emotional Stability's facets, leaving the appropriate level of analysis with which to relate Emotional Stability to job performance

unknown. The purpose of the current paper is to present a series of meta-analyses that address this gap in the literature.

In order to address this issue, this paper makes four contributions to the literature. First, a new, empirically derived facet structure of Emotional Stability is used. Second, we use this facet-structure to estimate the relationship between facet-level Emotional Stability and a variety of performance criteria. Third, the incremental validity of facet-level Emotional Stability over broad Emotional Stability is estimated. Fourth, job complexity is examined as a moderator of the relationship between overall job performance and facet-level Emotional Stability.

The Value of Global Emotional Stability

Although Neuroticism has been conceptualized in a variety of ways, it is widely considered to be an enduring tendency to experience negative emotions such as anxiety, sadness, and anger that result in poor emotional adjustment (Costa & McCrae, 1992; Goldberg, 1990; 1999). Some researchers have preferred to discuss Neuroticism as Emotional Stability, the bipolar opposite of Neuroticism, described as the tendency to be calm, composed, and resilient (Barrick & Mount, 1991; Goldberg, 1999; Norman, 1963). In the current paper we use the term Emotional Stability preferentially, but occasionally use Neuroticism when necessary.

Research on Emotional Stability has a long history dating back to the beginning of psychological inquiry, including the examination of neurotic symptoms in classic clinical psychology research such as Freud's psychoanalytic theory (Fiske, 1949; Freud, 1910, 1930). Since Emotional Stability was adopted as one of the Big Five traits (Tupes & Christal, 1961), it has consistently been replicated as an important component of personality across cultures (McCrae & Costa, 1997; Saucier & Ostendorf, 1999) and measures (e.g., Eysenck's Personality

Questionnaire, Eysenck, 1985; NEO-PI-R, Costa & McCrae, 1992; 16- PF, Cattell, 1993; AB5C, Hofstee, De Raad, & Goldberg, 1992), making it one of the most robust traits of the Big Five. A multitude of studies in both the clinical and personality literatures have linked Emotional Stability/Neuroticism to a variety of important life outcomes, including health-risk behaviors (Smith & Spiro, 2002), psychological disorders (Trull & Sher, 1994), criminality (Krueger, Hicks, & McGue, 2001), and problems maintaining important interpersonal relationships (Anderson, John, Keltner, & Kring, 2001; Donnellan, Larsen-Rife, & Conger, 2005). Despite these findings relating Emotional Stability to life outcomes, research relating Emotional Stability to organizational phenomena has been less promising.

Although Emotional Stability has a long history in psychological research, research involving the relationship between Emotional Stability and work behavior has only been popular in the last two decades. Specifically, in 1991, a meta-analysis by Barrick and Mount marked the beginning of an era in which a series of meta-analyses showed that Conscientiousness (ρ = .22) and Emotional Stability (ρ = .08) exhibit modest but stable relationships with work criteria. Other researchers have updated Barrick and Mount's (1991) Big Five meta-analysis, with results showing a higher corrected correlation for Emotional Stability of ρ = .14 (Hurtz & Donovan, 2000), ρ = .19 (Judge & Bono, 2001) and ρ = .32 (Hogan & Holland, 2003). While the meta-analytic relationships between Emotional Stability and work performance criteria have typically exhibited modest effect sizes, the estimates are relatively consistent across meta-analyses and typically have a credibility interval excluding zero (Barrick et al., 2001; Hurtz & Donovan, 2000; Judge & Bono, 2001; Hogan & Holland, 2003). This suggests that the correlation between Emotional Stability and work performance is consistent even across different occupational categories (e.g., sales, customer service, and managers).

The Value of Facet-Level Personality

Although meta-analytic research relating broad Emotional Stability to job performance has shown a fairly weak bivariate relationship, the value of facet-level Emotional Stability to organizational behavior is unknown. In general, organizational science has long debated the relative value of broad vs. specific predictors, which is often labeled the *bandwidth-fidelity dilemma* (Cronbach & Gleser, 1965). This dilemma characterizes the debate over whether organizational researchers should use fine-grained predictors to maximize precision in measurement or broader personality traits to optimize prediction of work performance.

Proponents of broader constructs argue that global measurement provides a better understanding of behavior in organizations because it maximizes the range of behaviors that can be predicted (Funder; 1991; Hanisch, Hulin, & Roznowski, 1998; Ones & Viswesvaran, 1996; Roznowski & Hanisch, 1990). In personality research, several studies have shown the value of broad predictors (Judge & Bono, 2001; Judge, Erez, Bono, & Locke, 2005; Ones, Viswesvaran, & Schmidt, 1993).

At the same time, several studies have found value in examining personality traits at an increased level of specificity (Ashton, 1998; Dudley, et. al., 2003; Mershon & Gorsuch, 1988; Paunonen, 1998; Roberts, Chernyshenko, Stark, & Goldberg 2005). For example, Roberts et al. (2005) found that the six facets underlying Conscientiousness have different predictive relationships with various criteria and that many facets were better predictors than overall Conscientiousness. Similarly, in their meta-analysis of facet-level Conscientiousness, Dudley et al. (2006) showed that the inclusion of the facets produced statistically significant increases in explained variance beyond global Conscientiousness across all job performance criteria. Unfortunately, very little is known about whether facet-level Emotional Stability provides

greater predictive value than global Emotional Stability, leaving the band-width fidelity dilemma of Emotional Stability unresolved.

The Facet Structure of Emotional Stability

A significant obstacle to meta-analyzing facet-level Emotional Stability is the lack of clear consensus regarding its lower-level structure. In this section, we review various conceptualizations of the facet structure of Emotional Stability in an attempt to integrate them into a common representation.

In describing the facet structure of Emotional Stability, we would be remiss to ignore the research done by clinical psychologists. It is commonly accepted among clinical psychologists that Neuroticism is associated with a host of emotional disorders (Ulliaszek, et al., 2009), being linked most frequently to anxiety and depression (Clara, Cox, & Enns, 2001; Clark, Watson, & Mineka, 1994; Watson, 2000). However, clinical psychology's emphasis is on psychological disorders and not on the study of normal trait personality, so these terms, as referenced in the clinical domain, cannot necessarily be equated with personality facets as discussed in the current paper. An additional level of complexity is introduced into the discussion of Emotional Stability facets by the terminology associated with clinical research being integrated into many existing studies and taxonomies.

In the domain of normal personality, the definition of Emotional Stability/Neuroticism appears to be broader. For example, one of the most-commonly used Big Five inventories, the NEO-PI-R (Costa & McCrae, 1992), purports to measure six Neuroticism facets: Anxiety, Depression, Self-Consciousness, Impulsiveness, Vulnerability to Stress, and Hostility. The Anxiety and Depression facets are similar to clinical definitions and the Vulnerability to Stress

and Self-Consciousness facets appear to describe behavioral patterns similar to the Anxiety facet. Additionally, the creators of the NEO-PI-R, Costa & McCrae (1992), include instability as a key part of their facet structure, and the broader conceptualization of Emotional Stability residing within the NEO-PI-R (Costa & McCrae, 1992), appears to come from the facets representative of this instability: Impulsiveness and Hostility.

A second facet structure for normal personality was proposed by Saucier and Ostendorf (1999). It was based on a factor analysis of responses to a large set of adjectives describing everyday human behavior. These authors also included emotional instability themes together with anxiety to represent Neuroticism. They found three facets – Irritability (temperamental, moody, impatient), Insecurity (unstable, nervous, fretful, jealous), and Emotionality (high strung, emotional, excitable). All three facets dealt with some form of emotional instability, excitability, and anxiety, but Saucier and Ostendorf (1999) did not obtain a separate depression facet-perhaps because there weren't enough adjectives related to that theme.

A third set of Neuroticism facets was developed by Hough and Ones (2002) who used a conceptual, nomological web-clustering approach to delineate the factor structure of Emotional Stability. Through this process, Hough and Ones (2002) identified three facets: Self-Esteem, Low Anxiety, and Even Temperedness. In summary, the conceptual and lexical taxonometric approaches to date offer a number of perspectives on the underlying structure of Emotional Stability.

Finally, in a recent questionnaire-based study, Chernyshenko and colleagues (Chernyshenko, Stark, & Drasgow, 2010; Stark, Drasgow, & Chernyshenko, 2008) factor analyzed scores from 30 scales purportedly measuring various aspects of the Emotional Stability factor. The data were

obtained from Goldberg's (1993 - 1997) systematic program of research on the Big Five.

Goldberg's data were also used to develop a facet structure for Conscientiousness, and more information on the data collection technique can be found in Roberts et al. (2005). The scales measuring various aspects of Emotional Stability were from seven personality inventories (NEO-PI-Revised, Costa & McCrae, 1992; 16 Personality Factor Questionnaire [16PF], Conn & Rieke, 1994; California Psychological Inventory [CPI], Gough, 1987; Multidimensional Personality Questionnaire [MPQ], Tellegen, 1982, Jackson Personality Inventory-Revised [JPI-R], Jackson, 1994; Hogan Personality Inventory[HPI], Hogan & Hogan, 1992; and the Abridged Big Five Circumplex from the International Personality Item Pool [AB5C - IPIP], Goldberg, 1999).

Factor analyses revealed that a three-facet solution fit the Goldberg data the best. The three facets of Emotional Stability were labeled *Well-Being*, *No Anxiety*, and *Even Temperedness*; all named in the direction of Emotional Stability, rather than Neuroticism. The three facets were relatively highly correlated. Table 1 contains the correlations between the facets of global Emotional Stability. First, individuals scoring low on the *Well-Being* facet are often depressed and dejected, have a low opinion of themselves, and experience frequent mood swings All the scales loading on this factor try to assess an individual's general emotional tone with despair and sadness being at the low end of the continuum and joy and well-being located at the high end. The second factor, *No Anxiety* is marked by a number of subscales describing apprehensiveness. Individuals scoring low on the No Anxiety facet are high strung, fearful, stressed, and apprehensive regardless of the type of situation they find themselves in. Finally, individuals scoring low on the third factor, Even Temperedness, tend to get upset easily and experience a range of negative emotions including irritability, anger, and hostility. On the other hand, those

scoring high on the Even Temperedness facet seldom get upset or annoyed, and remain calm and stable, even in extreme situations.

This three-facet representation attained from existing questionnaire-based scales of Emotional Stability shares similarities with both the clinical and lexical views described earlier. Well-Being and No Anxiety share similarities to the emotional disorders depression and anxiety, but are scored in the opposite direction. The Even Temperedness facet appears to be a combination of the Irritability and Emotionality facets found by Saucier and Ostendorf (1999). Interestingly, Hough and Ones (2002), who used a rational approach to cluster existing measures of Emotional Stability, identified a remarkably similar three-facet structure consisting of Well-Being, Low Anxiety, and Even Temperedness. Hence, the studies reviewed here, while using seemingly different samples and terminology, appear to be converging on the same three-facet representation of Emotional Stability with the first facet involving well-being, self-esteem and depression themes, the second facet involving adjustment and anxiety themes, and the third facet involving irritability, hostility and even temperedness themes. Consequently, the three-facet structure of Emotional Stability is adopted for the present study.

Emotional Stability and Job Performance

One difficulty for the current project is that, to date, the facets of Emotional Stability have not garnered much interest in the organizational literature, leaving a limited amount of theory to draw on when hypothesizing potential relationships between the facets of Emotional Stability (i.e., No Anxiety, Well-Being, and Even Temperedness) and job performance. To circumvent the lack of organizational research, research on negative emotional states was used to predict potential relationships. Whereas we acknowledge it is not ideal to use theories built upon

emotional *states* to explain a relationship between job performance and the *trait* of Emotional Stability, some researchers (Fleeson, 2001; Larsen & Ketelaar, 1991; Watson, 2000) have argued that affective traits, such as Emotional Stability, are intrinsically linked to states because traits increase the likelihood of experiencing a variety of related emotional states.

The Episodic Process Model of Affective Influences on Performance (shortened to the EPM for this paper; Beal, Weiss, Barros, & MacDermid, 2005) provides a common framework for understanding the relationships between the facets of Emotional Stability and various performance criteria. Although the EPM was developed to link immediate affective experiences to within-person performance episodes, its description of the core cognitive and regulatory processes that influence performance are relevant to the current paper. That is, we are assuming an isomorphism from the within-person processes of the EPM to the individual-level, betweenperson processes of personality research. The EPM suggests that episodic performance is influenced by the amount of cognitive and regulatory resources available to an individual and the extent to which these resources are allocated to the task at any given time. That is, one's pool of cognitive resources (i.e., task-related knowledge, skills, and ability) and regulatory resources (i.e., self-regulation; Baumeister, Muraven, & Tice, 2000; Muraven & Baumeister, 2000) are thought to impact performance to the extent that they are available and there are no off-task attentional demands. Relating this to Emotional Stability, individuals low on Emotional Stability experience a double-jeopardy of affective influences on performance because they (a) lack depth in their pool of regulatory resources, and (b) suffer from high levels of off-task attentional demands.

First, evidence of a shallow pool of regulatory resources for individuals who are low on Emotional Stability can be found in recent meta-analytic evidence suggesting Emotional Stability is related to the ability to regulate emotion (ρ = .17; Joseph & Newman, 2010). Furthermore, self-regulatory resources are viewed as finite and easy depleted (Muraven & Baumeister, 2000) and the experience of negative affective states such as those commonly experienced by individuals low on Emotional Stability has been associated with self-regulatory depletion (Baumeister, Heatherton & Tice, 1994; Baumeister, Vohs, & Tice, 2007). From these findings it follows that individuals low on Emotional Stability's facets will suffer impairments in task performance due to a diminished pool of regulatory resources available at any given time (Beal et al., 2005). It is plausible that these effects will extend beyond task performance to contextual performance and CWB, which is discussed below.

Second, the EPM suggests a lack of Emotional Stability may impair performance through an increase in off-task attentional demands. Specifically, it is expected that individuals low on No Anxiety, Even-Temperedness, and Well-Being will experience negative emotions more frequently. The experience of frequent and intense negative emotional states may lead to the introduction of additional information processing burdens (Clore, et al., 1994; Martin & Tesser, 1996; Lazarus, 1991). For example, rumination is associated with people remaining fixated on intrusive negative thoughts instead of taking action to find a solution to their problem (Kanfer & Ackerman, 1989; Nolen-Hokesema, Wisco, & Lyubomirsky, 2008) and is directly associated with Emotional Stability (Lam, Smith, Checkley, Rijsdijk, & Sham, 2003; Roberts, Gilboa, & Gotlib, 1998). Furthermore, low Emotional Stability individuals tend to have a higher than average level of physiological arousal, often associated with an overactive behavioral inhibition system (BIS) that promotes attention to threat-relevant stimuli (Gray, 1982, 1987; Fowles, 1993). Easterbrook's (1959) work found that when individuals experience high levels of physiological arousal they tend to narrow their attentional focus. In the workplace, this narrowing of attentional

focus, to concentrate on threat relevant stimuli, is expected to be detrimental, especially as tasks become more difficult and require more resources. Even if attention is focused on a work task, arousal has been shown to be detrimental if it exceeds an optimal level (Hochwarter, Perrewé, Hall, & Ferris, 2005; Yerkes & Dodson, 1908).

Thus far, to simplify the discussion of the EPM we have focused on its theoretical relationship with Emotional Stability. However, the current paper proposes that there are times when different forces drive the individual facets' self-regulatory and cognitive deficits, even though the outcomes of these deficits may appear to be similar. Next, a variety of evidence will be presented to describe each facet's unique relationship to self-regulatory/cognitive resources and to particular performance criteria.

Performance Types

It has been suggested that the structure of job performance is multidimensional and should include task performance, contextual performance, and counterproductive work behaviors (Rotundo & Sackett, 2002; Sackett, 2002). To thoroughly examine facet-level Emotional Stability's relationship to job performance, we hypothesize relationships between Emotional Stability and task performance, contextual performance, CWBs, and overall performance.

To begin, task performance is conceptualized as the effectiveness with which job incumbents perform activities that contribute to an organization's technical core (Borman & Motowidlo, 1997). Past meta-analytic research has shown a positive relationship between task performance and global Emotional Stability (ρ = .09; Hurtz & Donovan, 2000). Second, contextual performance is defined as activities that "contribute to organizational effectiveness in ways that shape the organizational, social, and psychological context" (Borman & Motowidlo,

1997). Contextual performance includes a variety of different activities, a few of which include volunteering to work overtime, helping and cooperating with others, and loyalty to the organization. Past meta-analytic research has found small correlations between global Emotional Stability and contextual performance (Borman, Penner, Allen, & Motowidlo, 2001; Hurtz & Donovan, 2000).

Finally, CWBs are defined as "voluntary behaviors that violate significant organizational norms and threaten the well-being of the organization, its members, or both" (Robinson & Bennett, 1995, p 556). CWBs are discretionary acts that individuals have significantly more control over than task related behaviors. Salgado's (2002) meta-analysis of the relationship between global Emotional Stability and different forms of CWB found that the relationship varies depending upon the CWB criteria used. Berry, Ones and Sackett (2007) completed an updated meta-analysis of the CWB/global Emotional Stability relationship in which they found a corrected correlation between global Emotional Stability and interpersonal deviance of -.24 and organizational deviance of -.23.

No Anxiety

There is now a wealth of evidence in the social and personality psychology literatures indicating that elevated levels of trait anxiety are associated with performance decrements on a wide range of cognitive tasks (Eysenck, 1982, 1988; Eysenck, Derakshan, Santos, & Calvo, 2007; Williams, Watts, MacLeod, & Mathews, 1997). A recently introduced theory, Attentional Control Theory (Eysenck et al., 2007), suggests mechanisms through which anxiety is detrimental to task performance. In Attentional Control Theory, anxiety is thought to impair attentional control, which results in the preferential allocation of attention to either internal

(worrisome thoughts) or external (non-task related) threat-related stimuli, thus reducing attentional focus on the current task (Eysenck et al., 2007). As evidence of this, high-anxious individuals have been shown to make less efficient use of the ability to use attentional control to resist distracter interference from task-irrelevant distractions (Derakshan & Eysenck, 2009, 2010).

In contrast, trait anxiety has also been shown to have neutral or even positive effects on task performance in some circumstances (Calvo, 1985; Calvo & Alamo, 1987; Eysenck, 1985). For example, Calvo and Alamo (1987) showed that when the task performed was simple or automatic and not evaluative, then high trait-anxious individuals performed better than low traitanxious individuals. Attentional Control Theory addresses these results by suggesting the positive effects of trait anxiety on task performance result from a desire to minimize the aversive state that anxiety creates by producing an increased motivation to complete a task. Attentional Control Theory also predicts that anxious individuals' increased effort and resource allocation may at first prevent decreases in performance quality, but as overall task demands increase performance quality will decrease. In support of this prediction, there is evidence that traitanxious individuals' performance on demanding tasks shows performance decrements not apparent on simpler tasks (Hayes, MacLeod, & Hammond, 2009). Overall, it appears that anxiety is beneficial only under very limited circumstances (e.g., when a task is simple and an individual does not feel pressure to perform well). Therefore, it is expected that No Anxiety will have a positive relationship to task performance.

Hypothesis 1: The Emotional Stability facet of No Anxiety will have a positive relationship to task performance

To explain No Anxiety's predicted relationship to contextual performance we once again draw on research related to attentional focus. The attentional focus model of helping behavior suggests that a negative mood increases helpfulness when attention is directed outward towards the misfortunes of others, whereas negative mood does not affect helping behavior (and often decreases it) when one attends to one's own problems and concerns (Carlson & Miller, 1986; Thompson, Cowan, & Rosenhan, 1980). This model is relevant to No Anxiety because anxious individuals have been shown to suffer impairments in the ability to inhibit their own negative thoughts, making them more likely to be inwardly focused. Past researchers also suggested that Anxiety will be negatively related to contextual performance because the action tendency for Anxiety is avoidance (Lazarus, 1991; Roddell & Judge, 2009). In a work context, avoiding anxiety-provoking stimuli may lead to generalized withdrawal behaviors. Work withdrawal consists of behaviors such as tardiness, long breaks, leaving early, and missing meetings (Bennett & Robinson, 2000; Rotundo & Sackett, 2002). As contextual performance involves volunteering to perform helpful behaviors, either toward coworkers or toward the organization as a whole, an incumbent's work withdrawal will result in fewer opportunities to perform helping behaviors. Overall, it is expected that, due to Anxious individuals inability to control their attentional focus and their avoidant action tendencies, No Anxiety will be positively related to contextual performance.

Hypothesis 2: The Emotional Stability facet of No Anxiety will show a positive relationship to contextual performance.

Anxiety's avoidant action tendency has also been linked to state and trait anxiety's' positive relationship to CWB (Fox & Spector, 1999; Rodell and Judge; 2009). Avoidant strategies are meant to reduce stress, in the process preventing individuals from becoming

incapacitated (Roth & Cohen, 1986). Unfortunately, as mentioned previously, we suspect that avoidant strategies result in increasing levels of work withdrawal if depended upon as a primary means of stress relief and withdrawal behaviors are a component of many counterproductive work behavior taxonomies (Bennet & Robinson, 2000; Rotundo & Sackett, 2002).

A second line of reasoning (that extends to all three facets) suggests that individuals who exhibit greater degrees of self-regulation are better able to control the affective responses that promote antisocial behavior (Eisenberg, Smith, Sadovsky, & Spinrad, 2004; Thau & Mitchell, 2010). As we have already laid out how Anxiety is associated with lowered attentional control, this provides further support for the prediction that No Anxiety will have a negative relationship to counterproductive work behaviors.

Hypothesis 3: The Emotional Stability facet of No Anxiety will be negatively related to CWBs.

Well-Being

Well-Being has potentially mixed effects on task performance. Interestingly, recent research has shown that sadness has a broadening effect on attention (Gable & Harmon, 2010), similar to that observed with positive emotions (Fredrickson & Branigan, 2005; Hicks & King, 2007). Breadth of attention has been associated with increased creativity. However, not all studies have found a positive relationship between sadness and creativity (Baas, De Dreu, & Nijstad, 2008; Gasper, 2004) and creativity may not be an important component of task performance in every job. Therefore, it is unclear to what extent the advantages in this domain will generalize to overall task performance.

More generally, it is expected that there is a positive relationship between Well-Being and task performance. To begin with, we have described how emotional distress is thought to cause impairment in self-regulation using the EPM (Beal, et al., 2005). Moreover, while Anxiety's deficits may sometimes be counterbalanced by compensatory strategies, it is not predicted that low Well-Being will create an accompanying motivational impetus to improve task performance. Whereas anxiety is characterized by somatic tension and hyperarousal, depressed affect is characterized by anhedonia and the absence of positive affect (e.g., loss of interest and feeling nothing is enjoyable). As can be seen from these differences, anxiety is a high-activation state, but depressed affect is characterized by the absence of activation.

Moreover, motivational intensity, or the drive to act, is directly related to arousal or activation suggesting that low Well-Being individuals are unmotivated to complete tasks (Bradley & Lang, 2007; Gable & Harmon, 2010). In summary, individuals low in Well-Being suffer self-regulatory deficits and an action tendency of *inaction*, thus it is expected that Well-Being will be positively related to task performance.

Hypothesis 4: The Emotional Stability facet of Well-Being will have a positive relationship to task performance.

Temporary sadness induced in a lab has been shown to increase helping behavior (see Cialdini & Kenrick, 1976, and Rosenhan, Karylowski, Salovey, & Hargis, 1981, for reviews). According to the negative-state relief model, a negative mood (specifically sadness) is accompanied by a corresponding drive to reduce bad feelings. This model posits that sadness may be reduced by performing helping behaviors because there is a sense of gratification that accompanies the performance of good works (Manucia, Baumann, & Cialdini, 1984). It should

be mentioned that there are important reversals to this phenomenon produced by variations in such factors as the costs associated with the helping act and the focus of the helper's attention.

From the negative state relief model it follows that Well-Being should be positively related to contextual performance, but there is additional research that must first be considered. In reference to the previously mentioned evidence connecting Well-Being to self-regulatory deficits, it has also been argued that prosocial behavior is effortful and demands the expenditure of considerable self-regulatory resources (Gailliot, 2010). As we have already noted, self-regulation is a limited resource (Baumeister, Heatherton & Tice, 1994; Baumeister, Vohs, & Tice, 2007), and controlling negative emotions uses these repositories (Muraven & Baumeister, 2000). It thus follows that individuals low on Well-Being will be less likely to participate in prosocial behaviors. In support of this proposition there is evidence suggesting that people are less helpful after they have exerted self-control (Gailliot, Baumeister, DeWall, Maner, Plant, Tice et al., 2007). For instance, participants who exerted self-control in artificial lab settings were less helpful afterwards, compared to participants who had not exerted self-control (Gailliot et al., 2007).

Hypothesis 5: The Emotional Stability facet of Well-Being will have a positive relationship to task performance.

Finally, Well-Being is to have a negative relationship to CWB. Once again, as for No Anxiety, this relationship is thought to be mediated by low Well-Being's relationship to impairments in self-regulation which are in turn linked to increased antisocial behavior (Eisenberg, et al., 2004; Posner & Rothbart, 2000).

Hypothesis 6: The Emotional Stability facet of Well-Being will be negatively related to CWBs.

Even Temperedness

Even Temperedness, at its negative pole, is marked by proneness to episodes of anger, irritability, hostility, and frustration. Anger is an important component of Even Temperedness and depends on the appraisal that one's "identity has been threatened or harmed" coupled with there being someone to blame for the offending action (Averill, 1982, 1983; Lazarus, 1991).

Even Temperedness is expected to negatively influence cognitive and self-regulatory resources. Like No Anxiety, Even Temperedness is a high-activation state accompanied by a generalized physiological reaction marked by the activation of the sympathetic nervous system (Cannon, 1927, 1929). As previously mentioned, when individuals experience high levels of physiological arousal, they tend to devote their cognitive resources entirely to threat-related stimuli, which is thought to serve as a distraction in the work place (Easterbrook, 1959). It is also predicted that Even Temperedness will influence self-regulation. Due to the intensity of the negative emotions associated with low Even Temperedness and the negative social consequences of expressing these emotions, it is expected that individuals will deplete their self-regulatory resources to suppress their feelings. Anger has been linked to the behaviors one would expect of individuals suffering from self-regulatory depletion such as indiscriminant optimism of success outcomes, an eagerness to act, (Lerner, Gonzalez, Small & Fischhoff, 2003; Lerner & Keltner, 2000, 2001; Mackie, Devos, & Smith, 2000) and carelessness in thought processes (Bodenhausen, Sheppard, & Kramer, 1994; Lerner, Goldberg, & Tetlock, 1998). Taken together,

the cognitive and self-regulatory deficits associated with low Even Temperedness should result in a positive relationship between Even Temperedness and task performance.

Hypothesis 7: The Emotional Stability facet of Even Temperedness will have a positive relationship to task performance.

The characteristic emotions representing low Even Temperedness, such as anger and frustration, by their very nature elicit responses antithetical to helping. While a variety of emotions associated with low Even Temperedness can be experienced and not acted on, when they are expressed it is frequently in the form of aggression. Baron and Richardson's (1994) definition of aggression highlights the opposing nature of low Even Temperedness to helping behaviors. The definition is "any form of behavior directed toward the goal of harming or injuring another living person who is motivated to avoid such treatment" (p. 7). We predict that Even Temperedness will exhibit a positive relationship to contextual performance because the negative emotions associated with low Even-Temperedness will inspire competitive/antagonistic behavior rather than helping behavior.

Hypothesis 8: The Emotional Stability facet of Even Temperedness will be positively related to contextual performance

Situational and trait anger predict externalizing problems (e.g., aggression; Berkowitz, 1993). In response to anger there is an action tendency to attack (Lazarus, 1991). Not surprisingly, there is substantial evidence showing that state anger and trait anger are related to CWB. Indeed, Roddell and Judge (2009) found that when Neurotic individuals experienced occupational stressors they were more likely to become angry and that anger was particularly correlated to CWB (r= .38). Additionally, trait anger is correlated with both organizational and

personal CWBs such as absenteeism, abusive behavior, work avoidance, work sabotage and theft (Chen & Spector, 1992; Fox & Spector, 1999). Lazarus (1991) suggested that retaliation and vengeance are ways to restore equilibrium. In other words, these counterproductive behaviors may help individuals deal with their anger by "evening the score" (Spector & Fox, 2002).

Hypothesis 9: The Emotional Stability facet of Even Temperedness will be negatively related to CWBs.

Overall Performance

There is growing consensus that overall performance is multidimensional - influenced by task performance, contextual performance, and CWB (Borman & Motowidlo, 1997; Sackett, 2002; Whiting, Podsakoff, & Pierce, 2008). Organ (1988) originally conceptualized organizational citizenship behavior (OCB) as discretionary, not recognized by the formal reward system; however, Orr, Sackett, and Mercer (1989) showed that citizenship behaviors do affect supervisor's ratings of overall job performance, and later Organ (1997) acknowledged the conceptual problems with OCBs being discretionary and not formally rewarded. In this metaanalysis, overall performance is conceptualized as supervisors' informal aggregation of all relevant performance information (including task, contextual, and CWB). Thus, we will build our hypotheses for overall performance based upon the previously described hypotheses. We assume that task performance and contextual performance are positively related to overall performance while CWB is negatively related. As No Anxiety, Well-Being, and Even Temperedness are all expected to show positive relationships to task performance, positive relationships to contextual performance, and negative relationships to CWB, it is expected that they will show a positive relationship to overall performance.

Hypothesis 10: Emotional Stability's facets (No Anxiety, Well-Being, and Even Temperedness) will be positively related to overall performance.

Complexity Moderator

Implicit in the logic that affective tendencies influence performance through their impact on cognitive and self-regulatory resources is that the complexity of the job being performed will moderate this relationship; performance decrements are expected to become more profound with increasing levels of job complexity. Job complexity is defined as a characteristic of the job "where high complexity infers a lack of routine repetitive work in favor of work involving high intellectual demands and/or frequent changes in task-related requirements—often involving the synthesis or interpretation of complex data" (Oswald, Campbell, McCloy, Rivkin, & Lewis, 1999, p. 3). As job complexity's definition makes clear, jobs characterized by higher job complexity require individuals to commit a higher level of cognitive and self-regulatory resources to the job. We have hypothesized that individuals low on No Anxiety, Well-Being, and Even Temperedness will suffer performance decrements due to the misuse of cognitive resources and the depletion of self-regulatory resources. Thus it is hypothesized that high levels of No Anxiety, Well-Being, and Even Temperedness will be positively related to overall job performance.

Hypothesis 11: Job complexity will moderate the relationship between each facet of Emotional Stability and job performance such that the relationships will be more positive in high complexity jobs than low complexity jobs.

Incremental Validity

The current meta-analysis also contributes to the existing literature by examining whether the facets provide incremental validity beyond that provided by global Emotional Stability. The question of whether the facets provide incremental validity is intrinsically linked to the expected relationships among the facets and global Emotional Stability as well as the expected inter-facet correlations.

Similar to past research, the present paper conceptualizes a global trait measure, such as Emotional Stability, as, "representing the variance common among a set of facet measures included within the particular broad trait" (Dudley et al., 2006, pp. 42). On the other hand, facet measures are seen to contain two types of variance: that which is shared with the other facets (and composes the global measure) and that which is unique to a particular facet (Costa & McCrae, 1995; Paunonen, 1998). For the facets to add incremental validity they must possess this unique component; otherwise they are redundant with the global trait. High intercorrelations between the facets and global Emotional Stability would suggest that global Emotional Stability is a sum of its parts and that the parts may not add anything that is not already contributed by the global trait. Additionally, if the facets are highly correlated with one another then it may not be useful to distinguish among them because they will tend to exhibit similar relationships to criteria of interest.

When examining the literature for clues regarding the potential relationships in question, it became clear that there exists substantial variation regarding the magnitude of these intercorrelations. For example, Harkness, Tellegen, and Waller (1995) reported a correlation between Well-Being and No Anxiety of .24, while for the same facets Moberg (1998) reported a correlation of .70. To give a second illustrative example, Lee (2000) found a correlation between No Anxiety and Global Emotional Stability of .78, while Paunonen (1998) found a correlation of

.27. This confusing array of evidence in combination with there being no research that we are aware of directly examining Emotional Stability's facets incremental validity above global Emotional Stability, leaves uncertainty regarding whether the facets will add incremental validity.

Research Question 1: To what degree will Emotional Stability's facets add incremental validity beyond global Emotional Stability in the prediction of job performance criteria?

CHAPTER 2 METHOD

In this study, six correlations among global Emotional Stability and its three facets were estimated via meta-analysis. In addition, validity coefficients representing the relationships between Emotional Stability (global and facet-level) and a variety of job performance criteria were examined. These types of job performance included overall performance, task performance, contextual performance, CWB, and overall composite performance (a performance variable that composited all of the previously mentioned performance subdomains, with CWB reverse-coded). In all, a total of 20 meta-analytic validity coefficients were generated, including four validity coefficients (global Emotional Stability and the three facets of Emotional Stability) for each of the five criteria (overall performance, task performance, contextual performance, CWB, and overall composite performance). In the current paper, we updated previous meta-analytic estimates of the relationship between global Emotional Stability and the five types of performance criteria to provide current estimates of these relationships.

Literature Search

In order to calculate meta-analytic correlations among global Emotional Stability, facet-level Emotional Stability, and various job performance criteria, we electronically searched the literature using Dissertation Abstracts International (1861-2010) and the American Psychological Association's PsycINFO database (1887-2010) for the following key words (and several variations thereof): Neuroticism, Emotional Stability, anxiety, anger, hostility, depression, sadness, well-being, narrow traits, facets, job performance, work performance, counterproductive work behavior, contextual performance, organizational citizenship behavior,

prosocial behavior, in-role performance, and task performance. Second, we electronically searched programs from the last six annual Society for Industrial and Organizational Psychology conferences (2005-2010) and the last 13 annual Academy of Management conferences (1998-2010), and contacted researchers who had conducted research on facet-level Emotional Stability to obtain unpublished manuscripts. Finally, we searched the references of other recent meta-analyses on facet-level Big Five traits (Dudley et. al., 2006; Roberts et. al., 2005).

Additionally, while updating the global Emotional Stability meta-analyses, we included all available and relevant validity coefficients from Hurtz and Donovan's (2000) original meta-analysis on personality and job performance and Joseph and Newman's (2010) update of Hurtz and Donovan's original meta-analysis, then these estimates were updated through 2010 (the Joseph and Newman meta-analysis was only updated through 2008). We also updated the meta-analysis of counterproductive work behavior by Berry, Ones and Sackett (2007) [through 2010]. All of the original seven studies on the relationship between Emotional Stability and CWB were located. Five were published journal articles and two were unpublished dissertations. These articles yielded 29 correlations from eight independent samples.

Inclusion Criteria

Studies were included in the meta-analysis according to the following rules. First, a study had to report a relationship between a job performance criterion (i.e., overall job performance, task performance, organizational citizenship behavior, or counterproductive work behavior) and global Emotional Stability or one of Emotional Stability's three facets. Alternatively, a study had to include an intercorrelation among facets or an intercorrelation between a facet and global Emotional Stability. For the articles pertaining to the performance criteria, only those studies

using actual workers or students recalling past work experience were included. No article that based its correlations on experimental conditions (e.g., English, 2001) was included. Additionally, only traits (e.g., "how you tend to feel" as opposed to state questions such as "how you feel right now") were included in the current meta-analysis (e.g., Roddell & Judge, 2009). If there were several correlations reported for the same individuals due to performance ratings by different observers (e.g., self, peer, supervisor, etc.), the correlations from multiple observers were composited (e.g., Leslie, 2002). To be included, each study had to provide sample sizes and to consist primarily of adult populations, excluding clinical populations. When the primary article only reported a range of the number of participating individuals (e.g., 200-225), the lower bound was recorded as the sample size. If only corrected correlations were reported in an article, then the authors were contacted to retrieve the uncorrected correlations (e.g., Denis et al., 2010). When deciding whether to include a primary study containing a correlation between Emotional Stability and CWB, measures of CWB could not consist of a personality measure designed to tap deviant behavior such as the Personnel Decisions International (PDI)-Employment Inventory (Paajanen, 1986), because correlating two measures of personality would yield artificially high estimates (e.g., Collins & Schmidt, 1993).

As mentioned previously, we adopted a three-facet structure of Emotional Stability that was originally developed by Chernyshenko and colleagues (Chernyshenko, Stark, & Drasgow, 2010; Stark, Drasgow, & Chernyshenko, 2008) and is currently being tried for use with the ASVAB to facilitate military personnel selection and classification decisions. Table 2 organizes the scales measuring Emotional Stability's facets in accordance to this three-facet framework. The inventories used in the current meta-analysis include the Hogan Personality Inventory (HPI; Hogan & Hogan, 1992), Big Five Inventory (BFI, John, Donahue, & Srivastava, 1991; John &

Srivastava, 1999); Five-Dimensional Temperament Inventory (FDTI; Higgins, Pihl, Peterson, & Lee, 2007); Goldberg's Big 5 markers (Goldberg, 1992), NEO (PI/PI-R/FFI; Costa & McCrae, 1992), 16PF (Cattell, Cattell, & Cattell, 1993), Global Personality Inventory (GPI; Schmit, Kihm, & Robie, 2006), Assessment of Individual Motivation (AIM; Barnes, 2001a; 2001b), Personal Style Inventory (PSI; Lounsbury & Gibson, 2004), Multi-dimensional Personality Questionnaire (MPQ; Tellegen, 1982, 1995, 2003), Abridged Big Five Circumplex (AB5C; Goldberg, 1999), Personal Characteristics Inventory (PCI; Barrick & Mount, 2007), Jackson Personality Inventory (JPI; Jackson, 1976, 1992, 1994, 1997), California Psychological Inventory (CPI; Gough, 1987; Gough & Bradley, 1996), Eysenck's Personality Questionnaire (EPQ; Eysenck, 1985), Occupational Personality Questionnaire (OPQ), State-Trait Personality Inventory (STPI; Spielberger, 1979, 1996), Personality Research Form (PRF; Jackson, 1964, 1974, 1984, 1997) and the International Personality Item Pool (IPIP; Goldberg, 1999).

Table 2 summarizes the scales used to measure facet-level Emotional Stability and how they load onto the facets. When available the scales were categorized to facets based on a personality scale's factor loadings (note. for a scale to be assigned to a facet it had to have a factor loading greater than .30 and not load onto either of the other facets greater than .30). The information in this Table 2 was used by the coders to make inclusion decisions. The first column of the table lists the personality inventory in question then, if that inventory has a global Emotional Stability measure, the second column contains the test publisher's definition of the global measure. The column entitled "Global Emotional Stability's Relationship to Facets" describes how the global measure is related to its facets. For example, is the global Emotional Stability measure a combination of all the facet-level items or is it a broader construct containing different or additional items? The fourth column lists (yes/no) whether the global measure was

Emotional Stability's relationship to its facets becomes important later when interpreting our results. Finally, the last three columns of Table 2 give the personality manual's definitions of the facet scales. Below each scale's definition is its loading onto its facet. Many scales do not have factor loadings because data were not collected for these scales. If a study used a personality inventory not included in Chernyshenko's original factor analysis, the first and second authors obtained a copy of the inventory's items and examined the content of each item in order to address which facet of Emotional Stability was being measured. The inclusion of correlations from these studies was contingent upon a measure being one-dimensional. Indeed, if a measure appeared to include multiple facets or to measure clinical or state-like behaviors, its effect size was not included. Also, in these cases, agreement had to be unanimous across raters or the inventory was not included. The inclusion criteria resulted in a final database of 148 usable studies with 333 relevant correlations.

Coding

Consistent with our hypotheses and previous meta-analyses (Barrick & Mount, 1991; Dudley, et. al., 2004; Hurtz & Donovan, 2000; Salgado, 1997), we coded for type of performance criterion. There were four criterion types including (1) overall job performance, (2) task performance, (3) contextual performance, and (4) CWB. If a study reported a correlation between a brief, supervisor-reported measure of job performance and Emotional Stability, but no description of the job performance items or item content was given, this effect size was coded as overall performance. Similar to Hurtz and Donovan (2000), performance criteria such as in-role performance, technical performance, objective performance ratings, and the completion of specific job duties were classified as indicators of task performance. Given that contextual

performance has been defined as, "activities that contribute to the social and psychological core of an organization" (Borman & Motowidlo, 2003), activities such as helping coworkers (i.e., interpersonal facilitation), following the rules and procedures of the organization, volunteering for extra work, and persisting with enthusiasm were coded as contextual performance. Finally, on the basis of prior meta-analyses (Hough, 1992; Salgado, 2002), the counterproductive work behaviors category included criteria such as not adhering to policies and procedures, theft, attendance, tardiness/lateness, and disciplinary problems. Type of performance was independently coded by both the first and second author to ensure accuracy and completeness of coding. Overall, a high degree of initial agreement (89%) was obtained between the two independent raters, and divergent ratings were discussed by the authors until there was an agreement about the proper coding of the study in question. Finally, studies were also coded for sample size, nature of the sample (students, incumbents, applicants, etc.), and demographic makeup of the sample. If a study reported more than one type of performance criterion, the criterion were used to separately calculate their specific performance criterion (e.g., task performance and contextual performance), and were also used to create an "overall performance composite" that aggregated the effect sizes for all of the different performance criterion from each study (CWB was reverse coded; Nunnally, 1978; Judge, Thoresen, Bono, & Patton, 2001). This overall performance composite resulted in the calculation of a meta-analytic composite effect size that included one effect size from each study. The overall composite performance criterion was calculated because it gives an idea of how useful a predictor is when considering all of the components of job performance in tandem. Indeed, there is increasing evidence that there exists an integrative behavioral component that represents the shared variance among task

performance, contextual performance, deviant behaviors and withdrawal, labeled behavioral engagement (Newman & Harrison, 2008; Newman, Harrison, and Roth, 2006).

Job Complexity

To investigate job complexity as a moderator, we used the same method to code job complexity as that used by Le, Robbins, Illies, Holland, and Westrick (2010). Job complexity was based on ratings of preparation requirements for each occupation provided by O*NET, (http://online.onetcenter.org), or in O*NET terminology this is referred to as an occupation's "job zone". O*NET classifies jobs into one of five job zones based on the amount of experience, education, and training required to do the work. Job zones range from 1 (little or no preparation needed) to 5 (extensive preparation needed) although due to the small number of studies per facet, the job zones were dichotomized into little preparation needed (1-3) and extensive preparation needed (4 and 5; see Le et al., 2010 for more details regarding the use of O*NET job zones as a proxy for job complexity). The first and second authors independently matched the occupation description from each relevant study to an O*NET occupation and consequently a job zone. Overall, a high degree of initial agreement (79%) was obtained between the two independent raters, and divergent ratings were discussed until there was an agreement about the proper coding of the study in question.

Computation of meta-analytic coefficients

The current study followed the meta-analytic procedures outlined by Hunter and Schmidt (2004). We performed no correction for range restriction or dichotomization, but all effect sizes were corrected for unreliability in both predictors and criteria. When studies did not include reliability coefficients for *facet-level* predictor variables, the facet-level reliabilities were located

in the appropriate personality instrument manual and imputed for the missing facet-level reliabilities. For missing reliabilities for global Emotional Stability's relationship to performance criteria (which were not included in personality test manuals), reliability distributions were created from those reported to estimate the missing values (Overall perf = .85; Task perf = .82; CWB = .81; Contextual perf = .81; Composite perf = .83). Reliability distributions were also created for missing global Emotional Stability reliabilities for the analysis of the correlation between global Emotional Stability and its facets (Emotional Stability/Wellbeing = .78; Emotional Stability/No Anxiety = .79; Emotional Stability/Even Temperedness = .83). The reliabilities from personality inventories continued to be used for missing facet-level reliabilities. To ensure the independence of our primary validity coefficients only one effect size per sample was used in each meta-analysis.

To assess incremental validity for various criteria, we ran a series of hierarchical regression analyses based on the meta-analytic correlation matrices. We used operational validities for our regression analyses (correlations corrected for criterion unreliability, but not predictor unreliability). These hierarchical regression analyses took part in two steps. First, a performance criterion was regressed onto global Emotional Stability (Step 1), which was followed by the three facets: Well-Being, No Anxiety, and Even Temperedness (Step 2). The sample size used to conduct each hierarchical regression analysis was the minimum sample size of the meta-analytic correlations included in the regression.

CHAPTER 3

RESULTS

Results for the meta-analyses of the intercorrelations of global Emotional Stability with its facets are presented in Table 3. When examining the intercorrelations among the facets and global Emotional Stability, it becomes apparent that they are strongly correlated. Of the three narrow traits, global Emotional Stability correlated with No Anxiety (ρ = .93), Well-Being (ρ = .90) and Even Temperedness (ρ = .74). Referring to the inter-facet relationships, the correlation between Well-Being and No Anxiety was especially notable at ρ = .74. The remaining two correlations Well-Being/ Even Temperedness (ρ = .63) and Even Temperedness/ No Anxiety (ρ = .51) were smaller - the confidence intervals for the later two did not overlap with that for Well-Being/No Anxiety suggesting that there is evidence that the relationship between Well-Being/No Anxiety is larger than the other two.

A regression of global Emotional Stability onto its three facets was also conducted. The results in Table 4 show that 78% of the variance in global Emotional Stability could be explained by its facets. This relatively large percentage of the variance in global Emotional Stability explained by the three lower-order facets suggested that global Emotional Stability is similar in meaning to a weighted composite of its facets, and there does not appear to be a large portion of remaining variance that would suggest another, fourth facet is needed.

Emotional Stability and Job Performance

Correlations between the facets/global Emotional Stability and the different types of job performance are reported in Table 5. As can be seen in Table 5, there was variability in the correlations across the five types of performance criteria, suggesting that type of performance

criterion was a moderator for the relationship between Emotional Stability and performance. As expected, Well-Being (ρ = .17) and Even Temperedness (ρ = .10) positively related to task performance, supporting Hypotheses 4 and 7. Hypothesis 1 was not supported because although No Anxiety was positively related to task performance (ρ = .20) its confidence interval included zero. Previous meta-analytic evidence indicated a positive relationship between task performance and global Emotional Stability (ρ = .09; Hurtz & Donovan, 2000), which was similar to that found in the current meta-analysis, ρ = .12.

As predicted, all three Emotional Stability facets had a small positive relationship with contextual performance, although the confidence interval for No Anxiety once again included zero. Thus Hypotheses 5 (Well-Being: ρ = .17) and 8 (Even Temperedness: ρ = .10) were supported while some uncertainty remains regarding Hypothesis 2 (No Anxiety: ρ = .20; CI lower limit = -.02, CI upper limit = .13). In past meta-analyses, Hurtz and Donovan (2000) found that global Emotional Stability showed a small positive meta-analytic relationship to the facets of contextual performance (.09 for job dedication and .10 for interpersonal facilitation) and Borman, et al., (2001) found a meta-analytic effect size of .14 between Negative Affect (a construct similar to Neuroticism) and global Emotional Stability. The current updated results also showed a positive relationship between global Emotional Stability and contextual performance of .13.

CWB showed the largest correlations between the facets and all the types of job performance. Hypotheses 3, 6, and 9 were supported as each of the facets had a negative relationship to CWB: Well-Being (ρ = -.28), No Anxiety (ρ = -.19), and Even Temperedness (ρ = -.29). The correlations for all three facets were much larger than those reported for global Emotional Stability although there were not a large number of facet-level studies (k = 3, 4, and 6,

respectively), which means one should be cautious when interpreting these results. The current study also updated past meta-analyses of the relationship between global Emotional Stability and CWB, but our results were quite different. Emotional Stability had a small positive relationship between global Emotional Stability and CWB of $\rho = .11$. A positive relationship between Emotional Stability and CWB was unexpected, so the results were examined more carefully. Upon further inspection, a very large sample (N = 7,666) was reported for a study by Hough et al., (1990), which when removed changed the meta-analytic correlation to $\rho = -.16$, more closely resembling the findings by Berry et al., (2007).

Regarding relationships between Emotional Stability and overall performance (i.e., performance criteria that could not be classified into a more specific performance criterion), hypothesis 10 was partially supported. Global Emotional Stability and all of the facets had small positive relationships with overall performance: global Emotional Stability (ρ = .12), Well-Being and No Anxiety (ρ = .08), and Even Temperedness (ρ = .02). However, the meta-analytic effect size for Even Temperedness' had a wide confidence interval, which encompassed zero (CI lower limit = -.18, CI upper limit = .20).

Finally, the composite performance variable showed how the facets are related to all of the types of performance combined. For this criterion performance variable all of the facets had positive correlations: Even Temperedness (ρ = .13), Well-Being (ρ = .12), and No Anxiety (ρ = .07). Finally, global Emotional Stability exhibited a similar relationship to overall composite performance as the facets (ρ = .12). All of the credibility intervals for composite performance were relatively large, suggesting the presence of moderators, further validating type of performance and complexity as moderators.

Incremental Validity for predicting Job Performance Criteria

As a method of testing for incremental validity, we conducted a series of hierarchical regression analyses. A separate regression analysis was performed for each of the five types of performance. The results are presented in Table 6. For each of these analyses, global Emotional Stability was entered first, followed by the addition of the three facets.

The results suggest that the degree to which narrow traits contribute to the prediction of performance above and beyond global Emotional Stability depends on the type of performance in question. The regression analyses indicated that the facets of Emotional Stability provided statistically significant increases in explained variance above and beyond global Emotional Stability for CWB and composite performance. Notably, there was not a statistically significant increase in the amount of variance explained in contextual performance, overall performance, or task performance after controlling for global Emotional Stability. The increases in variance for composite performance ($\Delta R^2 = .013$) and especially CWB ($\Delta R^2 = .071$) are worth discussing in more detail. Overall, it appears that the area of the criterion space where facet-level Emotional Stability helps to improve prediction the most is for CWB. Some may argue that these significant specific validity results (i.e., lower-order Emotional Stability facets predicting CWB after controlling for global Emotional Stability) could have been artificially augmented if the facets were over-corrected for unreliability. This argument is irrelevant to the current regression results; however because we used operational validities in our analyses (corrected for criterion unreliability, but not for predictor unreliability).

Emotional Stability and Job Complexity

Once again, it is important to emphasize that these results are based upon very few primary correlations, which may affect the validity and generalizability of these findings. Correlations between the facets/global Emotional Stability and the different types of job complexity are reported in Table 7. As can be seen in Table 7, there is some variability in the correlations at the facet-level, but not global Emotional Stability (high job complexity $\rho = .16$; low job complexity $\rho = .14$). Yet once again the confidence intervals for the low and high complexity jobs overlap for Well-Being and No Anxiety. It should be noted that the confidence intervals for global Emotional Stability entirely overlap suggesting that job complexity is not a moderator for global Emotional Stability. First, the results for Well-Being did not support Hypothesis 11 that predicted the relationships with high job complexity would be more positive than those for low job complexity for all three facets. Well-Being had a correlation with low complexity jobs of ($\rho = .12$) and high complexity jobs of ($\rho = .05$), which leaves uncertainty regarding Well-Being's relationship to job complexity. The No Anxiety facet also did not support Hypothesis 11, although it trended in the right direction with a predictive validity in high complexity jobs of ($\rho = .11$) and ($\rho = .05$) for low complexity jobs. Finally, Even Temperedness had the most unexpected moderation relationship with job complexity. Even Temperedness had a larger and more positive relationship to performance under low job complexity ($\rho = .13$), but a negative relationship under high job complexity ($\rho = -.05$) and its confidence intervals were completely non-overlapping. Incremental validity was also examined for job complexity where it was found that the facets contributed a significant, although small amount, of incremental validity for both low ($\Delta R^2 = .010$) and high ($\Delta R^2 = .022$) job complexity. For low job complexity, No Anxiety was the only facet with a statistically significant incremental regression weight ($\beta = -$.129) whereas for high job complexity only Even Temperedness had a significant regression

weight (β = -.17). It is notable that both of these regression weights were negative while the other facets and global Emotional Stability were positive predictors (the exception being Well-Being's regression weight for high performance that was only slightly negative; β = -.013).

CHAPTER 4

DISCUSSION

The current meta-analysis is the first to consider the relationship of facet-level Emotional Stability and job performance. More specifically, it addresses questions surrounding the value of facet-level Emotional Stability to organizations, while simultaneously offering contributions to the debate surrounding the use of broad versus narrow traits. Additionally, the current study uses a new facet structure for Emotional Stability that codes popular personality inventories' scales on each of the three facets of Emotional Stability. The results yield several insights that will be addressed below.

First, this paper contributes to the literature by meta-analytically examining the relationships among the facets and the facets' relationships with Global Emotional Stability. It was found that Well-Being and No Anxiety correlated very highly with one another (ρ = .72) and with global Emotional Stability (ρ = .90; .93, respectively). The correlation between No Anxiety and Well-Being was not surprising as the clinical community has long been aware of the strong overlap between the two constructs (Clark & Watson, 1991; Feldman, 1993; Mineka, Watson, & Clark, 1998). The large intercorrelation between No Anxiety and Well-Being suggests that, in most respects, these facets should have similar relationships with other constructs and that individuals high in No Anxiety should also be high in Well-Being. In comparison, Even Temperedness consistently showed weaker relationships to global Emotional Stability (ρ = .74), Well-Being (ρ = .63), and No Anxiety (ρ = .51), although these intercorrelations are still large. Overall, the most notable aspect of these results is how highly correlated the facets are with global Emotional Stability and with each other. These results support the measurement of

Emotional Stability at the global-level, as it appears that the facets are very similar to one another and overlap considerably with global Emotional Stability, especially No Anxiety and Well-Being. Before making any conclusions, further analyses were performed to look more closely at the utility of facet-level Emotional Stability.

As a second contribution, the facet-level traits were meta-analytically examined to see how they were related to different types of performance. Across the different types of performance, the hypotheses regarding the direction of facet-level Emotional Stability's relationships were supported. To reiterate, it was expected that the facets would have a positive relationship to task performance, contextual performance, and overall performance and a negative relationship to CWB. Overall, the correlations between the facets and different types of performance were relatively small except for those associated with CWB. However, it should be noted that these and other results should be interpreted with caution due to the small number of studies available to include in the meta-analysis. Further analyses were done to determine if the facets help to predict the relationship with job performance beyond that already accounted for by global Emotional Stability. These results will be discussed in a later section.

In support of the narrow trait approach the facets had relatively large correlations for CWB. The facets' correlations to CWB ranged from -.19 to -.29 and were all larger than the correlation for global Emotional Stability, r = -.16, although the confidence intervals of facet-level and global Emotional Stability partially overlapped leaving open the possibility that their true effect sizes are the same. As CWBs are extremely damaging both financially and interpersonally (leading to lost productivity, high insurance and labor costs, and an elevation in employee turnover; Penney & Spector, 2005; Baron & Neuman, 1996), the opportunity to

identify employees more likely to perform these behaviors offers new insight into how to reduce CWB. For example, facet-level Emotional Stability could be incorporated into personnel selection tests to improve prediction while offering the advantage of not asking directly whether applicants have performed or are likely to perform counterproductive behaviors, like stealing, that are obviously socially undesirable. In addition to this practical concern, it is theoretically interesting that CWB is correlated with all three facets although current research has focused primarily on the connection between CWB and trait anxiety or trait anger. Well-Being exhibited the second largest correlation with CWB (ρ = -.28), so future research should focus on measuring this neglected component of global Emotional Stability's relationship to CWB. Taken together, these results are consistent with prior theorizing on negative affect and CWB: people low on No Anxiety, Well-Being, and Even Temperedness are more likely to perform behaviors that hurt their organization or coworkers. Future research is needed to support the theories underlying these hypotheses (i.e., individuals low on No Anxiety and Well-Being are primarily avoiding work, individuals low on Even Temperedness are actively lashing out, and the role of deficits in self-regulation in this process).

The facets relationships to the other types of performance (overall performance, task performance, contextual performance, and overall composite performance) tended to be in the expected, positive direction. These results support the possibility that Neuroticism is indeed associated with a drain on cognitive and self-regulatory resources, which negatively affects performance in a variety of ways. Of course, no causal assertion can be made as we were not able to manipulate cognitive/self-regulatory resources in the present study. Also, as these results are based upon few studies, future research is needed to clarify this relationship.

The third contribution was an examination of whether the facets are able to explain additional variance in relationship to job performance. However, before we could interpret the incremental validity results from the hierarchical regression analyses, the meaning of the facets after controlling for global Emotional Stability had to be considered. To do this the items from ten personality inventories were obtained (NEO-PI-R, HPI, MPQ, ABLE, IPIP, JPI, and 16-PF, BFI, Saucier 40 mini-markers, and Goldberg's Adjective Markers) and the inventories measuring only facet-level traits were compared to those measuring only global Emotional Stability. The ten personality inventories were selected because they were the most frequently used in the studies included in the meta-analysis and/or because their items were easily obtainable (nonproprietary). This task was made difficult because many of these inventories did not make it clear if their facet items were different or the same as their global items. Many times the inventories were constructed with multiple layers such that the scales used to measure the facets were combined to construct the estimate of global Emotional Stability (e.g., MPQ, JPI, HPI, etc.). This means that for inventories for which the global traits are composed entirely of items used to measure the facets, it is not possible for the facets to possess any incremental validity beyond global Emotional Stability. It was for this reason that we concentrated on comparing those inventories measuring only facet-level traits to those measuring only global Emotional Stability. This task was also difficult because proprietary inventories do not reveal how their items load onto their factors/facets, so the following interpretation is based upon the first and fourth authors categorizing the items based upon the inventory's definition of their factors and scales.

When we took a look at the compiled items, the items suggested that many pure Big Five inventories may not include any (or very few) Even Temperedness items whereas those inventories focused at the facet-level tended to cover Even Temperedness more thoroughly (see Table 2). In fact, many pure Big Five inventories described their measure of global Neuroticism as "the tendency to feel negative emotions such as anxiety and depression" without mentioning any components of Even Temperedness; or they concentrated specifically on how individuals respond to stress or pressure (BFI; John, Donahue, & Srivastava, 1991; John & Srivastava, 1999, EPI, PSI). As an example of how Even Temperedness as a facet of Emotional Stability was overlooked, the Big Five Inventory (BFI; John, Donahue, & Srivastava, 1991; John & Srivastava, 1999) described low Agreeableness as "competitive, can be argumentative and openly angry," which sounded like a description of low Even Temperedness; and then for Emotional Stability there were no items addressing Even Temperedness. Additionally, some facet-level measures included more extreme items in which the aggressive tendencies associated with Even Temperedness were emphasized. It is possible that the majority of incremental validity stemmed from Even Temperedness. Global Emotional Stability inventories consistently included items for Well-Being, but individual inventories defined it in ways that were conceptually distinct from one another, ranging from some inventories concentrating on the component of Self-Confidence (PCI; secure, confident, resilient) to others concentrating on the component of No Depression (NEO-PI-R; depressed, sad, despondent). From looking at the items it is possible that the solely facet-level inventories may have had more items focusing on Well-Being as the tendency to remain optimistic in the face of stress/pressure. Additionally, there may be a unique component to Even Temperedness and Well-Being that focused specifically on self-regulation or in other words individual's inability to exert impulse control.

The self-regulation took various forms such as keeping up with an exercise program or suppressing aggressive outbursts. Finally, No Anxiety/ Anxiety is a universally important component of personality inventories focusing on either global or facet-level Emotional Stability with items like "generally I feel nervous or fearful". Clinical researchers have pointed out that there is a clear conceptual overlap between Neuroticism and anxiety (Watson & Clark, 1984) with "both the dimension and its measures often labeled anxiety and until 1980 anxiety disorders were considered neurotic disorders, with the clear implication of a characterological basis" (Clark, Watson, & Mineka, 1994, pp. 106). From inventory items it appears that No Anxiety is the facet that may be the most thoroughly covered by global measures, so it is less likely that incremental validity will originate from this facet. Yet, No Anxiety did consistently have somewhat large regression weights (see Table 6), which suggested that it did at times contribute to incremental validity.

The large correlations between the facets and global Emotional Stability suggested that gaining large amounts of incremental validity from the facets would be unlikely, but the incremental validity for CWB increased by 7.1% above and beyond that accounted for by global Emotional Stability. Therefore, CWB is the type of performance for which measuring facet-level Emotional Stability shows the most potential utility. The driving forces behind the incremental validity appear to be Well-Being and Even Temperedness, which both have significant regression weights, while the incremental validity for No Anxiety is much smaller and non-significant.

The other types of performance measured, overall performance, task performance, and contextual performance, (excluding composite performance, which may have become significant due to its inclusion of CWB) did not exhibit incremental validity. That the facets did not explain

incremental validity for contextual performance has important theoretical implications, because some researchers conceptualize CWB and contextual performance as representing opposite ends of a continuum. However, if contextual performance and CWB were truly on opposite ends of a single continuum then to counterbalance the large negative correlations associated with facet-level CWB, the correlations for facet-level contextual performance would be expected to be larger and explain a significant amount of incremental validity. Clearly, at least for Emotional Stability, contextual performance and CWB are not simply opposite ends of a continuum. Additionally, the small correlations and non-significant increases in incremental validity found for overall performance suggest that when supervisors give an overall rating of their subordinates' performance CWB must not play a large role in their overall evaluation.

Overall Job Performance and Job Complexity

The impact of negative affect on self-regulation provided an important theoretical structure within which to hypothesize the effect of the facets on job performance. Self-regulation research has shown that it is a limited resource (Baumeister, Heatherton, & Tice, 1994; Baumeister, Vohs, & Tice, 2007) and that both controlling negative affect and performing a task result in resource depletion (Muraven & Baumeister, 2000). Therefore, we predicted that more complex tasks would lead to faster deterioration of self-regulatory resources, resulting in poorer performance. More specifically, we predicted that the relationship between facet-level Emotional Stability and overall performance would become larger and more positive for high complexity jobs than low complexity jobs. It should be mentioned that our hypothesis for No Anxiety mirrors the predictions made by Attentional Control Theory for task performance and high job

complexity. Unfortunately, there were not enough studies to examine job complexity as a moderator for task performance or the other types of job performance.

Our hypotheses for job complexity were not supported. The results for Well-Being (high job complexity = .05; low job complexity = .12) and No Anxiety (high job complexity = .11; low job complexity = .05) showed that although No Anxiety is trending in the right direction that both No Anxiety's and Well-Being's confidence intervals for low and high job complexity overlap, thus we cannot draw conclusions about one correlation being larger or smaller than the other. Both facets were based on few primary effect sizes and additional research is needed to establish more stable results. This is especially true for Well-Being, because the current results could be a product of analyzing too few correlations for jobs of high complexity, resulting in a second order estimation error.

Finally, Even Temperedness had an interesting relationship to job complexity (high job complexity = -.05; low job complexity = .13) with a positive correlation for low job complexity and a negative correlation for high job complexity. This means that for complex jobs it is more beneficial for individuals to be low on Even Temperedness (i.e. quicker to anger, irritable, etc.). This pattern of results could stem in part from managerial positions being coded in O*NET as having high job complexity. Individuals with more power, such as managers have been shown to have more leeway when expressing negative emotions at work when their interaction partner had relatively lower power (Diefendorff, Morehart, & Gabriel, 2010). Additionally, the expression of anger (when other identifying information is absent) conveys that individuals have relatively higher–status and that they are competent and powerful (Conway, Di Fazio, & Mayman, 1999; Tiedens, 2001). In the negotiation literature anger, a component of Even Temperedness, has also

been shown to signal that individuals possess positive attributes such as toughness (Frank, 1988; Tiedens, 2001). In addition, the expression of emotions associated with Even Temperedness could have adaptive components because they allow an organization's problems to be acknowledged and dealt with allowing opportunities for organizational improvement (Huy, 1999; Kiefer, 2002; Nonaka, Toyama, & Byosiere, 2001). In sum, there is plenty of research that helps to explain why low Even Temperedness may be an adaptive characteristic for those in positions that afford power within an organization. On the other hand, display rules dictate that those lower in the organizational hierarchy exert more control over their emotions and refrain from expressing emotions such as anger to their supervisors (Diefendorff & Gabriel, 2010). If job complexity is acting as an indicator of one's position in an organizational hierarchy then it could explain why it is relatively important for individuals in low complexity jobs to be high on Even Temperedness.

Limitations and Directions for Future Research

The current study depended upon the availability of relevant effect sizes, and unfortunately, the number of studies for some of our key effect sizes was smaller than we would have liked. In the past facet-level Emotional Stability has not received very much attention in the organizational literature, so there were not very many effect sizes that met the selection criterion of measuring actual job performance. Many primary studies were excluded because they chose to use proxies of job performance (e.g., academic performance or training performance). This in turn led to a smaller pool of studies within which to examine the effects of job complexity, resulting in only having enough studies to examine its effect on overall job performance. Even when only examining overall job performance we were forced to dichotomize job complexity

from five categories to two to have enough studies for both low and high job complexity. A need exists for future research examining the relationship of facet-level Emotional Stability and job performance.

A second limitation of the current study could be that some studies were included in the meta-analysis that used scales for which we did not have factor loadings to support their categorization onto a particular Emotional Stability facet. Whereas utmost care was taken to ensure the correct classification of these scales, the process was subjective and other researchers could disagree about their placement. Yet, we would like to point out that in many ways the utilization of a factor analysis to decide upon many of these scales' relationships to the facets is a step forward – something that has not been done in previous facet-level meta-analyses (Dudley et al., 2006).

Finally, many personality inventories were not designed with Emotional Stability's three facets in mind, so most inventories do not measure all three facets or they have scales that combine a few of the facets into one. In the future it will be important to create a theoretically and empirically sound measure that taps all three facets independently and is readily available to researchers.

Conclusion and Implications

While many of these meta-analytic results were based upon a limited number of studies, they provide a synthesis of available knowledge and hopefully will create an impetus for future research in this area. First and foremost, these results have serious implications for the large number of researchers studying CWB and practitioners looking for a way to reduce CWBs in their organizations. Our results indicate that in relationship to CWB, Emotional Stability's facets

do have relatively large effect sizes and that they provide incremental validity beyond global Emotional Stability. The results for task performance were smaller, but also suggest the possibility that Emotional Stability's facets could improve the prediction of this criterion—a relationship that deserves future research. Overall, these results demonstrate that there are some types of job performance for which facet-level Emotional Stability is associated with performance criteria and is more informative than global Emotional Stability. Additionally, job complexity was shown to moderate the relationship between each facet and overall performance.

In the current paper, we used a meaningful structure for facet-level Emotional Stability that integrates past research, and answered questions regarding the specificity at which Emotional Stability maximizes predictive power. In the narrow vs. broad trait debate (Ashton, 1998; Ones & Viswesvaran, 1996; Paunonen, 1998) the CWB results lend further credence to the study of narrow traits, yet at the same time the facets did not improve predictive validity for the majority of types of job performance. It appears that the true answer to the debate is that some narrow traits are going to be useful some of the time, and empirical analyses can establish when this is going to be.

TABLES

Table 1. Correlations between Emotional Stability Facet Scores from Data Used to Establish the Facet Structure.

Factor	Well-Being	No Anxiety	Even Tempered
Well-Being	1.00		
No Anxiety	0.81	1.00	
Even Tempered	0.72	0.68	1.00

Note. N = 737.

Table 2. Facet-level personality inventories.

Facet Lave	Personality	Inventories
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<u> </u>									
Personality Trait Inventory	Global Emotional Stability	Global Emotional Stability's Relationship to Facets	Global Measure Used		Well-Being Scale: Happy, cheerful, optimistic, depressed, dejected	No Anxiety Scale: Insecure, apprehensive, nervous, relaxed, certain	Even Temperedness Scale: Moody, hot- headed, calm, composed, temperamental		
Multidimensio nal Personality Questionnaire (MPQ;Tellegen , 1982, 1995, 2003)	High Negative Emotional Temperament - proneness to experience anxiety, anger, and related emotional and behavioral negative engagement.	Most distinctively related to Stress Reaction, Alienation, and Aggression.	No	Factor	Alienation - Believing that others wish them harm; being victims of false and nasty rumors; having been betrayed and deceived; feeling used by "friends"; feeling pushed around -0.39	Stress Reaction - Tense and nervous; sensitive and vulnerable; prone to worry and feeling anxious; irritable and easily upset; having changing moods; feeling miserable without reason; being troubled by feelings of guilt and unworthiness.	Aggression - Physically aggressive; enjoying upsetting and frightening others; enjoying scenes of violence (fights, violent movies); victimizing others for own advantage.		
NEO-PI- Revised (Costa & McCrae, 1992)	Neuroticism - identifies individuals who are prone to psychological distress.	It is unclear how the facets relate to the global trait (note. Self-Consciousnes s and Vulnerability load onto global Emotional	Yes	Loadings	Impulsiveness - tendency to Depression - act on tendency to cravings and experience urges rather feelings of guilt, than reining sadness, them in and despondency delaying and loneliness gratification	Anxiety - level of free floating anxiety	Angry Hostility - tendency to experience anger and related states such as frustration and bitterness		
		Stability)		Factor Loadings	-0.75 -0.50	-0.66	-0.81		

Note. Global Emotional Stability = the definition of the global measure if the inventory has one; Global Emotional Stability's relationship to the facets = description of how the personality inventories conceptualize the relationship between their measure of Global Emotional Stability and the facet measures; Global measure used = (yes/no) whether or not the meta-analysis used the global measure;

Table 2 (cont.)

Personality Trait Inventory	Global Emotional Stability	Global Emotional Stability's Relationship to Facets	Global Measure Used		Well-Being Scale: Happy, cheerful, optimistic, depressed, dejected	No Anxiety Sc apprehensive, ne certa	ervous, relaxed,	Even Temperedness Scale: Moody, hot- headed, calm, composed, temperamental
16-PF (Cattell, Cattell, & Cattell, 1993)	Low/High Anxiety -	Is derived from subscales: Emotional Stability, Vigilance, Apprehension, and Tension. (note. Vigilance cross loads on Trust and Hostility, so was not included)	No	Factor	Emotional Stability (C) - Reactive emotionally, changeable, affected by feelings, emotionally less stable, easily upset (Lower Ego Strength);Emotio nally stable, adaptive, mature, faces reality calmly (Higher Ego Strength)	Tension; (Q4) - Relaxed, placid, tranquil, torpid, patient, composed low drive. Tense, high energy, impatient, driven, frustrated, over wrought, time driven.	Apprehension; (O) - Self- Assured, unworried, complacent, secure, free of guilt, confident, self satisfied (Untroubled); Apprehensive, self doubting, worried, guilt prone, insecure, worrying, self blaming	
				Loadings	0.61		-0.70	
Jackson Personality Inventory-R (JPI-R; Jackson, 1976, 1992, 1994, 1997)	Emotional - High score means may express feelings readily and that you may have trouble hiding your emotions, especially under stressful conditions.	Is derived from subscales Anxiety, Cooperativenes s, and Empathy (Empathy coded as Agreeableness).	No			Anxiety - High Scorer Tends to worry over inconsequential matters; more easily upset than the average person; apprehensive about the future.	cooperativene ss - Is susceptible to social influence and group pressures; tends to modify behavior to be consistent with standards set by others; follows suit; fits in.	
	Conditions.			Factor Loadings		-0.68	-0.85	

Table 2 (cont.)

Personality Trait Inventory	Global Emotional Stability	Global Emotional Stability's Relationship to Facets	Global Measure Used		Well-Being Scale: Happy, cheerful, optimistic, depressed, dejected			No Anxiety Sc apprehensive, no cert	ervous, relaxed,	Even Temperedness Scale: Moody, hot-headed, calm, composed, temperamental	
Hogan Personality	Adjustment - High scorers tend to be	Is derived from subscales Empathy, Not Anxious, No Guilt,			No Depression - Feelings of contentment	Good Attachment - Good attachment with one's parents "No matter what happened I felt my parents love me"	Identity - Satisfaction with one's life tasks "I know what I want to be"	Not Anxious - Absence of anxiety "I am seldom tense or anxious"	Self Confidence - Confidence in oneself; "I am a very confident person"	Calmness - Lack of emotionality "I keep calm in a crisis"	Empathy - Absence of irritability "I am rarely irritated by other's faults"
Inventory (HPI; Hogan,	calm, self- confident, and	Calmness, Even	Yes	Factor Loadings	0.81	0.45	0.61	0.64		0.34	0.74
	steady under pressure.	Tempered, No Complaints, Trusting, Good Attachment.		· ·	No Guilt - Absence of regret "I rarely feel guilty about some of the things I have done"	No Somatic Complaints - disposition to complain				Even Tempered - Not moody or irritable "I rarely lose my temper"	No Hostility - Lack of hostility "I never hold grudges very long"
				Factor Loadings	0.68	0.34				0.7	
State Trait Personality Inventory (STPI; Spielberger,)	No Global Emotional Stability measure							Trait Anxiety - differences in the strength of the disposition to respond to situations perceived as threatening with elevations in state anxiety		Trait Anger - People high in trait anger frequently experience angry feelings ; especially when they are treated unfairly by others.	
				Factor Loadings							

Table 2 (cont.)

Personality Trait Inventory	Global Emotional Stability	Global Emotional Stability's Relationship to Facets	Global Measure Used		Well-Being Scale: Happy, cheerful, optimistic, depressed, dejected	No Anxiety Scale: Insecure, apprehensive, nervous, relaxed, certain	Even Tempere Moody, hot-h composed, ter	eaded, calm,
California Psychological Inventory (CPI; Gough	No Global Emotional Stability				Well-Being - Overall sense of health and optimism	Independence - Self-sufficiency and self- directedness		
& Bradley, 1996)	measure			Factor Loadings	0.62			
	No Global				Optimistic - cheerful and happy, keeps spirits up despite setbacks	Worrying - Worrying when things go wrong, keyed up before important events	Emotional Control - restrained in showing emotions, keeps feelings back, avoids outbursts	Relaxed - calm, relaxed, cool under pressure, can switch off, free from anxiety
OPQ	Emotional Stability			Factor Loadings				
	measure						Tough- Minded - difficult to hurt or upset, can brush insults, unaffected	
				Factor Loadings				

Table 2 (cont.)

Personality Trait Inventory	Global Emotional Stability	Global Emotional Stability's Relationship to Facets	Global Measure Used		Well-Being Scale: Happy, cheerful, optimistic, depressed, dejected	No Anxiety Scale: Insecure, apprehensive, nervous, relaxed, certain	Even Tempere Moody, hot-he composed, ten	eaded, calm,
Personal Characteristic s Inventory (PCI; Barrick & Mount, 2007)	Stability - This scale sheds light on how an individual is likely to respond when faced with changing or stressful situations.	Is derived from self- confidence and even- temperament subscales.	Yes	Factor Loadings	Self- Confidence - secure, confident, resilient, able to accept criticism, comfortable in social situations, and able to cope well in novel or difficult situations.	Security -	Even- Temperament - Easy-going, handle stress well while maintaining their poise, patient, and positive. They may tend to minimize difficulties and not be expressive.	
Personality Research Form (PRF; Jackson, 1964, 1974, 1984, 1997)	No Global Emotional Stability measure			Factor		Harmavoidance - Does not enjoy exciting activities, especially if danger is involved; avoids risk of bodily harm; seeks to maximize personal safety.	Aggression - Enjoys combat and argument; easily annoyed; sometimes willing to hurt people to get own way; may seek to "get even" with people perceived as causing harm.	Defendence - Ready to defend against real or imagined harm from other people; takes offense easily; does not accept criticism readily

Table 3. Meta-Analysis of Relationships between Global Emotional Stability and its Facets

							80% Credibility Int.		% nce Int.	
Intercorrelation	k	N	r	ρ	SD p	LL	UL	LL	UL	% variance
Global Emotional Stability and Well-Being	10	4148	0.75	0.90	0.25	0.58	1.00	0.61	0.88	01
Global Emotional Stability and No Anxiety	11	4234	0.76	0.93	0.15	0.74	1.00	0.68	.84	03
Global Emotional Stability and Even Temperedness	10	4014	0.62	0.74	0.29	0.37	1.00	0.46	0.77	02
Well-Being and No Anxiety	13	14017	0.58	0.74	0.04	0.69	0.79	0.54	0.61	00
Well-Being and Even- Temperedness	9	6431	0.48	0.63	0.05	0.57	0.69	0.42	0.56	00
No Anxiety and Even Temperedness	11	6715	0.39	0.51	0.16	0.30	0.72	0.29	0.48	08

Note. k = number of validity coefficients; mean r= sample-size weighted mean observed validity; r = sample-size weighted mean observed validity; ρ = true score validity; $SD\rho$ = standard deviation of true score validity; 80% Credibility Int. = lower and upper limits of 80% credibility interval for ρ ; 95% Confidence Int.= lower and upper limits of 95% confidence interval for r; % variance = percentage of variance accounted for by sampling error; Aggregated job performance is the validity coefficient for all types of job performance combined.

Table 4. Regression of global Emotional Stability onto its three facets.

Facet	β	R	R ²
Well-Being	.361*	.882*	.778*
No Anxiety	.444*		
Even Temperedness	.273*		

 $Note. R^2 =$ amount of variance in global Emotional Stability explained by the facets.

^{*}p < .05.

Table 5. Type of performance criterion as a moderator of the relationship between Emotional Stability facets and performance.

						80% Cro In	-	95% Cor In		%
Performance Criterion	k	N	r	ρ	$SD \rho$	LL	UL	LL	UL	% variance
Overall Job performance				•	•					
Global Emotional Stability	61	10178	0.10	0.12	0.13	-0.04	0.28	0.06	0.14	41
Well-being	26	4118	0.07	0.08	0.09	-0.04	0.20	0.02	0.11	61
No Anxiety	22	3850	0.07	0.08	0.00	-0.11	0.29	0.02	0.13	31
Even Temperedness	12	2317	0.01	0.02	0.14	-0.16	0.20	-0.18	0.20	41
Task performance										
Global Emotional Stability	34	5692	0.09	0.12	0.08	0.01	0.22	0.05	0.13	69
Well-being	5	1223	0.12	0.17	0.13	0.004	0.34	0.01	0.24	44
No Anxiety	5	1223	0.13	0.20	0.17	-0.02	0.41	-0.02	0.28	31
Even Temperedness	3	273	0.08	0.10	0.00			-0.05	0.21	133
Contextual performance										
Global Emotional Stability	34	6498	0.11	0.13	0.14	-0.05	0.32	0.06	0.16	37
Well-being	9	1909	0.08	0.10	0.00			0.04	0.12	201
No Anxiety	7	1496	0.05	0.08	0.04	0.02	0.13	-0.02	0.13	89
Even Temperedness	8	1666	0.05	0.07	0.00			0.00	0.11	160
Counterproductive work behaviors Global Emotional Stability	19	11585	0.04	0.11	0.19	-0.14	0.35	0.12	0.20	10
Global ES Hough et al. (1990) Removed	18	3919	-0.12	-0.16	0.11	-0.30	-0.01	-0.18	-0.06	44
Well-being	3	1440	-0.21	-0.28	0.17	-0.51	-0.06	-0.38	-0.04	16
No Anxiety	4	1654	-0.15	-0.19	0.13	-0.35	-0.28	-0.27	-0.02	24
Even Temperedness	7	2477	-0.22	-0.27	0.20	-0.53	-0.01	-0.34	-0.10	15
Composite job performance										
Global Emotional Stability	102	18893	0.10	0.12	0.14	-0.06	0.30	0.07	0.13	36
Well-being	30	5751	0.12	0.14	0.11	0.01	0.28	0.06	0.17	37
No Anxiety	27	5734	0.07	0.09	0.16	-0.11	0.29	0.02	0.13	31
Even Temperedness	20	4887	0.13	0.17	0.22	-0.11	0.45	0.04	0.21	19

Note. k = number of validity coefficients; r= sample-size weighted mean observed validity; ρ = true score validity; SD ρ = standard deviation of true score validity; 80% Credibility Int. = lower and upper limits of 80% credibility interval for ρ ; 95% Confidence Int.= lower and upper limits of 95% confidence interval for r; % variance = percentage of variance accounted for by sampling error; Composite job performance = the validity coefficient for the composite of all the types of job performance included in the analyses; Hough et al., (1990) was removed because it measured global Emotional Stability differently than other articles; There is no credibility interval for a corrected correlation with a variance of zero

.Table 6. Hierarchical regression results for job performance criteria.

Variable	β	R ²	ΔR^2
Overall job performance			
1. Global Emotional Stability	.110*	.012*	
2. Global Emotional Stability	.138*	.016*	.004
2. Well-Being	.035		
2. No Anxiety	018		
2. Even Temperedness	070		
Task performance			
1. Global Emotional Stability	.110	.012	
2. Global Emotional Stability	056	.036*	.016
2. Well-Being	.105		
2. No Anxiety	.146		
2. Even Temperedness	009		
Contextual performance			
1. Global Emotional Stability	.120*	.014*	
2. Global Emotional Stability	.128*	.016*	.002
2. Well-Being	.045		
2. No Anxiety	042		
2. Even Temperedness	010		
Counterproductive work behaviors (Hough et. al., 1990 removed)			
1. Global Emotional Stability	140*	.020*	
2. Global Emotional Stability	.114*	.091*	.071*
2. Well-Being	200*		
2. No Anxiety	076*		
2. Even Temperedness	171*		
Composite job performance			
1. Global Emotional Stability	.011*	.012*	
2. Global Emotional Stability	.037	.025*	.013*
2. Well-Being	.081*		
2. No Anxiety	031		
2. Even Temperedness	.095*		

Note. Numbers 1 and 2 indicate Step 1 and Step 2, respectively, of the hierarchical regression analyses. Because the hierarchical regression analyses are based on meta-analytic data, sample sizes are large; therefore, statistical significance of the regression weights is less relevant; β = standardized regression coefficient; R^2 = amount of variance explained by predictors; ΔR^2 = amount of variance explained by the facets of Emotional Stability beyond that explained by global Emotional Stability; Composite job performance = the validity coefficient for the composite of all the types of job performance included in the analyses (CWB reverse coded). Hough et al., (1990) was removed because it measured global Emotional Stability differently than other articles. * p < .05.

Table 7. Job complexity as a moderator of the relationship between Emotional Stability traits and performance.

						80 Credab			95% Confidence Int.	
Job Complexity	k	N	r	ho	$SD \rho$	LL	UL	LL	UL	
Low Job Complexity										
Global Emotional Stability	26	4761	0.12	0.14	0.15	-0.05	0.33	0.06	0.18	32
Well-Being	15	1492	0.10	0.12	0.13	-0.05	0.29	0.02	0.18	53
No Anxiety	10	1005	0.04	0.05				-0.01	0.08	300
Even Temperedness	3	719	0.10	0.13				0.06	0.13	607
High Job Complexity										
Global Emotional Stability	12	1301	0.13	0.16	0.14	-0.02	0.34	0.03	0.23	45
Well-Being	4	889	0.05	0.05				-0.02	0.11	144
No Anxiety	5	1108	0.10	0.11	0.08	0.00	0.22	0.01	0.19	54
Even Temperedness	4	899	-0.05	-0.05				-0.12	0.03	100

Note. k = number of validity coefficients; r= sample-size weighted mean observed validity; ρ = true score validity; SD ρ = standard deviation of true score validity; 80% Credibility Int. = lower and upper limits of 80% credibility interval for ρ ; 95% Confidence Int.= lower and upper limits of 95% confidence interval for r; % variance = percentage of variance accounted for by sampling error; There is no credibility interval for a corrected correlation with a variance of zero.

Table 8. Hierarchical regression results for job complexity's effect on overall performance.

Variable	β	R ²	ΔR^2
Low Complexity			
1. Global	0.130*	0.017*	
2. Global	0.159*	0.027*	0.010*
2. Well-Being	0.076		
2. No Anxiety	-0.129*		
2. Even Temperedness	0.035		
High Complexity			
1. Global	0.150*	0.023*	
2. Global	0.222*	0.045*	0.022*
2. Well-Being	-0.013		
2. No Anxiety	0.032		
2. Even Temperedness	-0.170*		

Note. Numbers 1 and 2 indicate Step 1 and Step 2, respectively, of the hierarchical regression analyses. Because the hierarchical regression analyses are based on meta-analytic data, sample sizes are large; therefore, statistical significance of the regression weights is less relevant; β = standardized regression coefficient; R^2 = amount of variance explained by predictors; ΔR^2 = amount of variance explained by the facets of Emotional Stability beyond that explained by global Emotional Stability. * p < .05.

REFERENCES

- *Ahlmeyer, S. D. (1995). The five factor model and social desirability in the workplace: Issues of criterion-related validity across diverse measures of job performance (Unpublished doctoral dissertation). California State University, Fresno, CA.
- Anderson, C., John, O.P., Keltner, D., & Kring, A. M. (2001). Who attains social status? Effects of personality and physical attractiveness in social groups. *Journal of Personality and Social Psychology*, 81, 116-132.
- Andreasen, N. C. (1987). Creativity and mental illness: prevalence rates in writers and their first-degree relatives. *American Journal of Psychiatry*, *144*, 1288-1292.
- Anisman, H. & LaPierre, Y. (1982). Neurochemical aspects of stress and depression: Formulations and caveats. *Psychological stress and psychopathology*, 179-217.
- Armstrong-Stassen, M. (1994). Coping with transition: A study of layoff survivors. *Journal of Organizational Behavior*, 15, 597-621.
- Ashton, H. & Stepney, R. (1982). Smoking: Psychology and pharmacology. London & New York: Tavistock Publications.
- *Ashton, M. C. (1998). Personality and job performance: The importance of narrow traits.

 *Journal of Organizational Behavior, 19, 289-303.
- Averill, J. R. (1982). Anger and aggression: An essay on emotion. New York: Springer-Verlag.
- *Avis, J. M. (2001). An examination of the prediction of overall, task, and contextual performance using three selection measures for a service-type occupation (Unpublished doctoral dissertation). University of Southern Mississippi, Hattiesburg, MS.

- Baas, M., DeDreu, C. K. W., & Nijstad, B. A. (2008). A meta-analysis of 25 years of mood-creativity research: Hedonic tone, activation, or regulatory focus? *Psychological Bulletin*, 134,779-806.
- *Bacha, R. R. (2003). Specifying personality and self-monitoring effects on overall, task, and contextual job performance (Unpublished doctoral dissertation). Kent State University, OH.
- *Ball, G., Trevino, L. & Sims H. (1994). Just and unjust punishment: Influences on subordinate performance and citizenship. *Academy of Management Journal*, *37* (2), 299-322.
- * Bank, M. van der & Rothman, S. (2002). *Dispositional factors and coping as predictors of expatriates performance and desire to terminate the assignment*. Paper presented at the 5th Conference of the Society for Industrial Psychology (South Africa), Pretor.
- Barnes, J. (2001a). *AIM Air Force research database codebook*. Alexandria, VA: Human Resources Research Organization.
- Barnes, J. (2001b). *AIM grand databases codebook*. Alexandria, VA: Human Resources Research Organization
- Baron, R.A., & Neuman, J.H. (1996). Workplace violence and workplace aggression: Evidence on their relative frequency and potential causes. *Aggressive Behavior*, 22, 161-173.
- Baron, R. A., & Richardson, D. (1994). Human Aggression. New York: Plenum.
- Barrick, M. R., & Mount, M. K. (1991). The Big Five personality dimensions and job performance: A meta-analysis. *Personnel Psychology*, 44, 1-26.

- *Barrick, M. R. & Mount, M. K. (1993). Autonomy as a moderator of the relationships between the big five personality dimensions and job performance. *Journal of Applied Psychology*, 78(1), 111-118.
- *Barrick, M. R., & Mount, M. K. (1996). Effects of impression management and self-deception on the predictive validity of personality constructs. *Journal of Applied Psychology*, 81(3), 261-272.
- Barrick, M. R., Mount, M. K., & Judge, T. A. (2001). Personality and performance at the beginning of the new millennium: What do we know and where do we go next?.

 International Journal of Selection & Assessment, 9(1/2), 9.
- *Barrick, M. R., Parks, L., & Mount, M. K. (2005). Self-monitoring as a moderator of the relationships between personality traits and performance. *Personnel Psychology*, *58*, 745-767.
- *Barrick, M. R., Stewart, G. L., & Piotrowski, M. (2002). Personality and job performance: Test of the mediating effects of motivation among sales representatives. *Journal of Applied Psychology*, 87 (1), 43-51.
- *Barrick, M. R. & Zimmerman, R. D. (2009). Hiring for Retention and Performance. *Human Resource Management*, 48(2), 183-206
- Baumeister, R. F., Bratslavsky, E., Muraven, M., & Tice, D. M. (1998). Ego depletion: Is the active self a limited resource? *Personality Processes and Individual Differences*, 74, 1252-1265.
- Baumeister, R. F., DeWall, C. N., Ciarocco, N. J., & Twenge, J. M. (2005). Social exclusion impairs self-regulation. *Attitudes and Social Cognition*, 88, 589-604.

- Baumeister, R. F., Heatherton, T. F., & Tice, D. M. (1994). Losing Control: How and Why People Fail at Self-Regulation. San Diego, CA: Academic Press.
- Baumeister, R. F., Muraven, M., & Tice, D. M. (2000). Ego depletion: A resource model of volition, self-regulation, and controlled processing. *Social Cognition*, 18, 130-150.
- Baumeister, R. F., Vohs, K. D., Tice, D. M. (2007). The strength model of self-control. *Current Directions in Psychological Science*, *16*, 396-403.
- Beal, D. J., Weiss, H. M., Barros, E., & MacDermid, S. M. (2005). An episodic process model of affective influences on performance. *Journal of Applied Psychology*, *90*, 1054-1068.
- Bennett, R. J., & Robinson, S.L. (2000). Development of a measure of workplace deviance. *Journal of Applied Psychology*, 85, 349-360.
- * Berg, P. T. van den & Feij, J. A. (2003). Complex relationships among personality traits, job characteristics, and work behaviors. *International Journal of selection and Assessment*, 11 (4), 329-339.
- Berkowitz, L. (1993). *Aggression: Its causes, consequences, and control.* New York, NY: McGraw-Hill Book Company.
- Berry, C. M., Ones, D. S., & Sackett, P. R. (2007). Interpersonal deviance, organizational deviance, and their common correlates: A review and meta-analysis. *Journal of Applied Psychology*, 92, 410-424.
- *Berry, C. M., Page, R. C., & Sackett, P. R. (2007). Effects of self-deceptive enhancement on personality-job performance relationships. *International Journal of Selection and Assessment*, 15 (1), 94-109.
- Bies, R. J. (1987). The predicament of injustice: The management of moral outrage. *Research in organizational behavior*, *9*, 289-319.

- *Bilgic, R. & Sumer, H. C. (2009). Predicting military performance from specific personality measures: A validity study. *International Journal of Selection and Assessment*, 17(2), 231-238.
- *Bing, M. N, & Lounsbury, J. W. (2000). Openness and job performance in U. S.-based

 Japanese manufacturing companies. *Journal of Business and Psychology*, 14(3), 515-522.
- *Bing, M. N., Stewart, S.M., Davison, H. K., Green, P. D., McIntyre, M. D., & James, L. R. (2007). An integrative typology of personality assessment for aggression: Implications for predicting counterproductive workplace behavior. *Journal of Applied Psychology*, 92(3), 722-744.
- *Binneweis, C., Sonnentag, S., & Mojza, E. J. (2009). Feeling recovered and thinking about the good sides of one's work. *Journal of Occupational Health Psychology*, *14*(3), 243-256.
- *Black, J. (2000). Personality testing and police selection: Utility of the Big Five. *New Zealand Journal of Psychology*, 29, 2-21.
- *Blickle, G., Wendel, S., & Ferris, G. R. (2010). Political skill as moderator of personality job performance relationships in socioanalytic theory: Test of the getting ahead motive in automobile sales. *Journal of Vocational Behavior*, 76(2), 326-335.
- *Bluen, S. D., Barling, J., & Burns, W. (1990). Predicting sales performance, job satisfaction, and depression by using the achievement strivings and impatience-irritability dimensions of type A behavior. *Journal of Applied Psychology*, 75(2), 212-216.
- Bodenhausen, G. V., Sheppard, L. A., & Kramer, G. P. (1994(. Negative affect and social judgment. The differential impact of anger and sadness. *European Journal of Social Psychology*, 24, 45-62.

- Borman, W. C., & Motowildo, S. J. (1997). Introduction: Organizational citizenship behavior and contextual performance. *Human Performance*, 10, 67-69.
- Borman, W.C., Penner, L.A., Allen, T.D., & Motowidlo, S.J. (2001). Personality predictors of citizenship performance. *International Journal of Selection and Assessment*, 9, 52-69.
- *Boudreau, J. W., Boswell, W. R., & Judge, T. A. (2001). Effects of personality on executive career success in the United States and Europe. *Journal of Vocational Behavior*, 58, 53–81.
- Bradley, M. M., & Lang, P. J. (2007). Emotion and motivation. In J. T. Cacioppo, L. G.

 Tassinary, & G. G. Berntson (Eds.), *Handbook of psychophysiology* (3rd ed., pp. 581–607). Cambridge, UK: Cambridge University Press.
- *Brennan, A, & Skarlicki, D. P. (2004). Personality and perceived justice as predictors of survivors' reactions following downsizing. *Journal of Applied Social Psychology*, 34(6), 1306-1328.
- Bried, A. P., & Motowidlo, S.J. (1986). Prosocial organizational behaviors. *Academy of Management Review*, 11, 710-725.
- *Buddhavarapu, S. (2008). The relationship between work experience and leader traits in the prediction of leadership effectiveness (Unpublished doctoral dissertation). Wayne State University, Detroit, MI.
- *Burke, L. A. & Witt, L. A. (2002). Moderators of the openness to experience-performance relationship. *Journal of Managerial Psychology*, 17, 712-721.
- *Caligiuri, P.M. (2000). The big five personality characteristics as predictors of expatriate's desire to terminate the assignment and supervisor rated performance. *Personnel Psychology*, *53*(1), 67-88.

- Calvo, M. G. (1985). Effort, aversive representations and performance in test anxiety.

 *Personality and Individual Differences, 6, 563-571.
- Calvo, M. G., & Alamo, L. (1987). Test anxiety and motor performance: The role of muscular and attentional demands. *International Journal of Psychology*, 22, 165-178.
- Campbell, J. P., McHenry, J. J., & Wise, L. L. (1990). Modeling job performance in a population of jobs. *Personnel Psychology*, *43*, 313-333.
- Cannon, W.B. (1927). The James-Lange theory of emotion: A critical examination and an alternative theory. *American Journal of Psychology*, *39*, 10-124.
- Cannon, W. B. (1929). Bodily changes in pain, hunger, fear, and rage. New York: Appleton.
- Carlsmith, J.M., & Gross, A.E. (1969). Some effects of guilt on compliance. *Journal of Personality and Social Psychology*, 11, 232-239.
- Carlson, M., Sharlin, V., & Miller, N. (1988). Positive mood and helping behavior: A test of six hypotheses. *Journal of Personality and Social Psychology*, 55, 211-229.
- Cattell, H. E. (1993). "The structure of phenotypic personality traits": Comment. *American Psychologist*, 48, 1302-1303.
- *Cattell, R. B., Eber, H. W., & Tatsuoka, M. M. (1970). *Handbook for the Sixteen Personality Factor Questionnaire*. Champaign, IL: Institute for Personality and Ability Testing.
- *Chan, F. M. (2004). The effects of optimism and the five-factor model of personality on stress and performance in the work place (Unpublished doctoral dissertation). University of Tennessee, Knoxville, TN.
- Chen, P.Y., & Spector, P.E. (1992). Relationships of work stressors with aggression, withdrawal, theft, and substance use: An exploratory study. *Journal of Occupational and Organizational Psychology*, 65, 177-184.

- Chernyshenko, O. S., Stark, S., & Drasgow, F. (2010). Individual differences: Their measurement and validity. In Z. Sheldon (Eds), *APA Handbook of Industrial and Organizational Psychology: Vol. 2. Selecting and Developing Members for the Organization (pp. 117-151)*. Washington, DC: American Psychological Association.
- Church, A.T. (1994). Relating the Tellegen and five-factor models of personality structure. *Journal of Personality and Social Psychology*, 67, 898-909.
- Cialdini, R.B., Darby, B.L., & Vincent, J.E. (1973). Transgression and altruism. *Journal of Personality Assessment*, 54, 546-563.
- Cialdini, R.B., & Kenrick, D.T. (1976). Altruism as hedonism: A social development perspective on the relationship of negative mood state and helping. *Journal of Personality and Social Psychology*, *34*, 907-914.
- Clark, L. A., & Watson, D. (1991). Tripartite model of anxiety and depression: Psychometric evidence and taxonomic implications. *Journal of Abnormal Psychology*, 100, 316-336.
- Clarke, S. & Robertson, I. (2008). An examination of the role of personality in work accidents using meta-analysis. *Applied Psychology: An International Review, 57*, 94-108.
- Clore, G. L., Ellsworth, P. C., Frijda, N. H., Izard, C. E., Lazarus, R., LeDoux, J. E., Panksepp, J., Scherer, K. R., & Davidson, R. J. (1994). What are the minimal cognitive prerequisites for emotion? In P. Ekman & R. J. Richardson (Eds.), *The nature of emotion:*Fundamental questions (pp. 179-234). New York, NY: Oxford University Press.
- Clore, G. L., & Ortony, A. (1991). What more is there to emotion concepts than prototypes?

 **Journal of Personality and Social Psychology, 60, 48-50.

- *Colbert, A. E., Mount, M. K., Harter, J. K., Witt, L. A., & Barrick, M. R. (2004). Interactive effects of personality and perceptions of the work situation on workplace deviance.

 *Journal of Applied Psychology, 89(4), 599 609.
- *Collins, J.M., & Schmidt, F.L. (1993). Personality, integrity, and white collar crime: A construct validity study. *Personnel Psychology*, *46*, 295-311.
- Conn, S.R., & Rieke, M.L. (1994). The 16PF Fifth Edition Technical Manual. Champaign, IL: Institute for Personality and Ability Testing, Inc.
- *Conte, J.M., & Gintoft, J.N. (2005). Polychronicity, Big Five personality dimensions, and sales performance. *Human Performance*, 18(4), 427-444.
- *Conte, J. M., & Jacobs, R. R. (2003). Validity evidence linking polychronicity and Big Five personality dimensions to absence, lateness, and supervisory performance ratings. *Human Performance*, 16(2), 107-129.
- *Cook, M., Young, A., Taylor, D., & Bedford, A. P. (2000). Personality and self-rated work performance. *European Journal of Psychological Assessment*, 16(3), 202-208.
- *Cook, V. D. (2005). An investigation of the construct validity of the big five construct of emotional stability in relation to job performance, job satisfaction, and career satisfaction (Unpublished doctoral dissertation). University of Tennessee, Knoxville, TN.
- *Cope, J. R. (1981). Personality characteristics of successful vesus unsuccessful police officers (Unpublished doctoral dissertation). Florida Institute of Technology, Melbourne, FL.
- *Cortina, J. M., Doherty, M. L., Schmitt, N., Kaufman, G., & Smith, R. G. (1992). The "big five" personality factors in the IPI and MMPI: Predictors of police performance.

 *Personnel Psychology, 45(1), 119-140.

- *Costa, P. T., & McCrae, R. R. (1992). Revised NEO Personality Inventory (NEO-PI-R) and NEO Five-Factor Inventory (NEO-FFI) professional manual. Odessa, FL: Psychological Assessment Resources.
- *Costa, P. T., & McCrae, R. R. (1995). Domains and facets: Hierarchical personality assessment using the Revised NEO-Personality Inventory. *Journal of Personality Assessment*, 64, 21–50.
- Cox, B.J., Enns, M.W., Walker, J.R., Kjernisted, K.D., & Pidlubny, S.R. (2001). Psychological vulnerabilities in patients with major depression versus panic disorder. *Behaviour Research and Therapy*, *39*, 567-573.
- *Crant, J. M. (1995). The proactive personality scale and objective job performance among real estate agents. *Journal of Applied Psychology*, 80(4), 532-537.
- *Crant, J. M. (2000). Proactive behavior in organizations. *Journal of Management*, 26(3), 435-462.
- *Credé, M., Chernyshenko, O.S., Stark, S., Bashshur, M., & Dalal, R.S. (2007). Job satisfaction as mediator: An assessment of job satisfaction's position within the nomological network.

 *Journal of Occupational and Organizational Psychology, 80, 515-538.
- *Crespo, M. R. (2007). Intelligence and personality as antecedents to leadership effectiveness and extrinsic career success: The predictive power of individual differences.

 (Unpublished doctoral dissertation). Columbia University, New York, NY.
- Cronbach, L., & Gleser, G. (1965). Psychological tests and personnel decisions (2nd ed). Urbana, IL: University of Illinois Press.
- Cropanzano, R., & Baron, R.A. (1991). Injustice and organizational conflict: The moderating role of power restoration. *International Journal of Conflict Management*, 2, 5-26.

- *Cropanzano, R., James, K., & Konovsky, M. A. (1993). Dispositional affectivity as a predictor of work attitudes and job performance. *Journal of Organizational Behavior*, *14*, 595-606.
- * Cucina, J.M., Goldenberg, R.J., & Vasilopoulos, N.L. (2005). *Confirmatory Factor Analysis* of the NEO-PI-R Equivalent IPIP Inventory. Paper presented at the 20th meeting of the Society for Industrial and Organizational Psychology, Los Angeles, CA.
- *Cutchin, G. (1998). Relationship between the Big Five personality factors and performance criteria for in-service high-school teachers (Unpublished doctoral dissertation). Purdue University, West Lafayette, IN.
- * Den Hartog, D. N., & Belschak, F. D. (2007). Personal initiative, commitment and affect at work. *Journal of Occupational and Organizational Psychology*, 80(4), 601-622.
- *Denis, P. L., Morin, D., & Guindon, C. (2010). Exploring the capacity of NEO PI-R facets to predict job performance in two French-Canadian samples. *International Journal of Selection and Assessment*, 18(2), 201-207.
- Derakshan, N., & Eysenck, M. W. (2009). Anxiety, processing efficiency, and cognitive performance: New developments from attentional control theory. *European Psychologist*, 14, 168-176.
- Derakshan, N. & Eysenck, M.W. (2010). Introduction to the special issue: Emotional states, attention, and working memory. *Cognition & Emotion*, 24, 189-199.
- *Detrick, P., Chibnall, J. T., & Luebbert (2005). Relationship between personality and academy performance. *Applied HRM Research*, *10*, 99 102.
- Dill, K. E., Anderson, C. A., Anderson, K.B., & Deuser, W.E. (1997). Effects of aggressive personality on social expectations and social perceptions. *Journal of Research in Personality*, *31*, 272-292.

- Dodge, K.A., & Newman, J.P. (1981). Biased decision-making processes in aggressive boys. *Journal of Abnormal Psychology*, 90, 375-379.
- Donnellan, M. B., Larsen-Rife, D., & Conger, R. D. (2005). Personality, family history, and competence in early adult romantic relationships. *Journal of Personality and Social Psychology*, 88, 562-576.
- Donnerstein, E., Donnerstein, M., & Munger, G. (1975). Helping behavior as a function of pictorially induced moods. *Journal of Social Psychology*, *97*, 21-25.
- *Dorner, K. R. (1991). Personality characteristics and demographic variables as predictors of job performance in female traffic officers. Unpublished doctoral dissertation, United States International University.
- Douglas, S.C., & Martinko, M.J. (2001). Exploring the role of individual differences in the prediction of workplace aggression. *Journal of Applied Psychology*, 86, 547-559.
- Drew, J., Carless, S. A., & Thompson, B. M. (2008). Predicting turnover of police officers using the Sixteen Personality Factor Questionnaire. *Journal of Criminal Justice*, *36*(4), 326-331.
- Driskell, J. E., Hogan, J., Salas, E., & Hoskin, B. (1994). Cognitive and personality predictors of training performance. *Military Psychology*, *6*, 31-46.
- Dudley, N. M., Orvis, K. A., Lebiecki, J. E., & Cortina, J. M. (2006). A meta-analytic investigation of conscientiousness in the prediction of job performance: Examining the intercorrelations and the incremental validity of narrow traits. *Journal of Applied Psychology*, 91, 40-57.

- *Duke, A. B., Goodman, J. M., Treadway, D. C., Breland, J. W. (2009). Perceived organizational support as a moderator of emotional labor/outcomes relationships. *Journal of Applied Social Psychology*, *39*(5), 1013-1034.
- Easterbrook, J. A. (1959). The effect of emotion on cue utilization and the organization of behavior. *Psychological Review*, *66*, 183-201.
- Eisenberg, N., Smith, C.L., Sadovsky, A., & Spinrad, T.L. (2004). Effortful control: Relations with emotion regulation, adjustment, and socialization in childhood. *Handbook of self-regulation: Research, theory, and application*, 259-282.
- *English, A. D. (2001). When personality traits need a frame of reference: Enhancing the predictive validity of non-cognitive measures (Unpublished doctoral dissertation). Florida Institute of Technology, Melbourne, FL.
- English, T. (2001). Tension analysis in international organizations: A tool for breaking down communication barriers. *The International Journal of Organizational Analysis*, 9, 58-83.
- Eysenck, M. W., Derakshan, N., Santos, R., & Calvo, M. G. (2007). Anxiety and cognitive performance: Attentional control theory. *Emotion*, *7*, 336-353.
- Eysenck, S. B. G., & Eysenck, H. J. (1975). *Manual of the EPQ (Personality Questionnaire)*.

 San Diego, CA: Educational and Industrial Testing Service.
- *Fan, J., Wong, C. C., Carroll, S. A., & Lopez, F. J. (2008). An empirical investigation of the influence of social desirability on the factor structure of the Chinese 16PF. *Personality and Individual Differences*, 45(8), 790-795.
- *Fallon, J. D. (2004). An examination of the construct and concurrent validity of an organizational citizenship scale (Unpublished doctoral dissertation). University of Southern Mississippi, Hattiesburg, MS.

- *Fallon, J. D., Avis, J. M., Kudisch, J. D., Gornet, T. P., & Frost, A. (2000). Conscientiousness as a predictor of productive and counterproductive behaviors. *Journal of Business and Psychology*, 15(2), 339-349.
- *Ferris, D. L., Brown, D. J., & Heller, D. (2009). Organizational supports and organizational deviance: The mediating role of organization-based self-esteem. *Organizational Behavior and Human Decision Process*, 108(2), 279-286.
- *Ferris, G. L., Witt, L. A., & Hochwarter, W. A. (2001). Interaction of social skill and general mental ability on job performance and salary. *Journal of Applied Psychology*, 86(6), 1075-1082.
- *Fine, S. (2006). Relationships between Personality Measures and Job Performance Ratings among far Eastern couriers. *Applied H.R.M. Research*, 11, 69-72.
- Fiske, D. W. (1949). Consistency of the factorial structures of personality ratings from different sources. *The Journal of Abnormal and Social Psychology*, *44*, 329-344.
- Fleeson, W. (2001). Toward a structure- and process-integrated view of personality: Traits as density distributions of states. *Journal of Personality and Social Psychology*, 80, 1011-1027.
- *Fox, S. & Spector, P. E. (1999). A model of work frustration-aggression. *Journal of Organizational Behavior*, 20, 915-931.
- Fredrickson, B. L., & Branigan, C. (2005). Positive emotions broaden the scope of attention and thought-action repertoires. *Cognition and Emotion*, *19*, 313-332.
- Freud, S. (1910). The origin and development of psychoanalysis. *The American Journal of Psychology*, 21, 181-218.

- Freud, S. (1930). The Expression of the mind and its relation to the unconscious. Oxford, England: Gallimard.
- Frijda, N. H. (1986). *The emotions*. London: Cambridge University Press.
- Fox, S., & Spector, P.E. (1999). A model of work frustration-aggression. *Journal of Organizational Behavior*, 20, 915-931.
- Fugate, M., Kinicki, A. J., & Prussia, G. E. (2008). Employee coping with organizational change: An examination of alternative theoretical persepectives and models. *Personnel Psychology*, *61*, 1-35.
- Fuller, B. Jr., & Marler, L. E. (2009). Change driven by nature: A meta-analytic review of proactive personality literature. *Journal of Vocational Behavior*, 75, 329-345.
- Funder, D. C. (1991). Global traits: A neo-Allportian approach to personality. *Psychological Science*, 2, 31-39.
- Gable, P. A., & Harmon-Jones, E. (2010). The blues broaden, but the nasty narrows; Attentional consequences of negative affects low and high in motivational intensity. *Psychological Science*, *21*, 211-215.
- Gailliot, M.T. (2009). The effortful and energy-demanding nature of prosocial behavior. In Mikulincer, M., & Shaver, P. R. (Eds.) Prosocial motives, feelings, and behavior The better angels of our nature. Washington, DC: American Psychological Association.
- Gailliot, M.T., & Baumeister, R.F. (2007). Self-regulation and sexual restraint: Dispositionally and temporarily poor self-regulatory abilities contribute to failures at restraining sexual behavior. *Personality and Social Psychology Bulletin*, 33, 173-186.
- Gasper, K. (2004). Permission to seek freely? The effect of happy and sad moods on generating old and new ideas. *The Creativity Research Journal*, 16, 215-229.

- *Gerhardt, M. W., Rode, J. C., & Peterson, S. J. (2007). Exploring mechanisms in the personality-performance relationship: Mediating roles of self-management and situational constraints. *Personality and Individual Differences*, 43, 1344-1355.
- Gibson, D. E., & Callister, R. R. (2010). Anger in organizations: Review and integration. *Journal of Management*, *36*, 66-93.
- *Goffin, R. D., & Anderson, D. W. (2007). The self-rater's personality and self-other disagreement in multi-source performance ratings: Is disagreement healthy? *Journal of Managerial Psychology*, 22(3), 271-289.
- Goldberg, L.R. (1990). An alternative "description of personality": The Big-Five factor structure. *Journal of Personality and Social Psychology*, 59, 1216-1229.
- Goldberg, L. R. (1993). The structure of phenotypic personality traits. *American Psychologist*, 48, 26-34.
- Goldberg, L. R. (1999). A broad-bandwidth, public domain, personality inventory measuring the lower-level facets of several five-factor models. In I. Mervielde, I. Deary, F. De Fruyt, & F. Ostendorf (Eds.), *Personality Psychology in Europe*, Vol. 7 (pp. 7-28). Tilburg, The Netherlands: Tilburg University Press.
- Gough, H. (1987). California Psychological Inventory. Palo Alto, CA: Consulting Psychologists Press.
- Grandey, A. A. (2003). When "the show must go on": Surgace acting and deep acting as determinants of emotional exhaustion and peer-rated service delivery. *Academy of Management Journal*, 46, 86-96.

- *Grant, A. M., Parker, S., & Collins, C. (2009). Getting credit for proactive behavior: Supervisor reactions depend on what you value and how you feel. *Personnel Psychology*, 62(1), 31-55.
- *Grawitch, M. J., Granda, S. E., & Barber, L. K. (2009). Prospective workday appraisals influence end-of-workday affect and self-monitored performance. *Journal of Occupational Health Psychology*, *13*(4), 331-344.
- Greeno, C. G., & Wing, R. R. (1994). Stress-induced eating. *Psychological Bulletin*, 115, 444-464.
- Griffin, B. & Hesketh, B. (2004). Why openness to experience is not a good predictor of job performance. *International Journal of Selection and Assessment*, 12, 243-251.
- Gross, J. J. (1998). Antecedent- and response-focused emotion regulation: Divergent consequences for experience, expression, and physiology. *Journal of Personality and Social Psychology*, 74, 224-237.
- Gunthert, K. C., Cohen, L. H., & Armeli, S. (1999). The role of Neuroticism in daily stress and coping. *Journal of Personality and Social Psychology*, 77, 1087-1100.
- Hackness, A.R., Tellegen, A, & Waller, N. (1995). Differential convergence of self-report and informant data for Multidimensional Personality Questionnaire traits: Implications for the construct of negative emotionality. *Journal of Personality Assessment*, 64, 185-204.
- Hanisch, K. A., Hulin, C. L., & Roznowski, M. (1998). The importance of individuals' repertoires of behaviors: The scientific appropriateness of studying multiple behaviors and general attitubes. *Journal or Organizational Behavior*, 19, 463-480.

- Harkness, A. R., Tellegen, A., & Waller, N. (1995). Differential convergence of self-report and informant data for multidimensional personality questionnaire traits: Implications for the construct of negative emotionality. *Journal of Personality Assessment*, 64, 185-204.
- Harmon-Jones, E., Sigelman, J. D., Bohlig, A., & Harmon-Jones, C. (2003). Anger, coping, and frontal cortical activity: The effect of coping potential on anger-induced left frontal activity. *Cognition and Emotion*, 17, 1-24.
- Harris, M., & Siebal, C. (1975). Affect, aggression, and altruism. *Developmental Psychology*, 11, 623-627.
- *Hastings, S. E., & O'Neill, T. A. (2009). Predicting workplace deviance using broad versus narrow personality variables. *Personality and Individual Differences*, 47(4), 289-293.
- Hayes, S., MacLeod, C., & Hammond, G. R. (2009). Anxiety-linked task performance:

 Dissociating the influence of restricted working memory capacity and increased investment of effort. *Cognition and Emotion*, 23, 753-781.
- *Hayes, T. L., Roehm, H. A., & Castellano, J. P. (1994). Personality correlates of success in total quality manufacturing. *Journal of Business and Psychology*, 8(4), 397-411.
- Heatherton, T. F., & Polivy, J. (1992). Chronic dieting and eating disorders: A spiral model. *The etiology of bulimia nervosa: The individual and familial context*. Washington DC: Hemisphere.
- *Hense, R. L. (2000). *The big five and contextual performance: Expanding person-environment fit theory* (Unpublished doctoral dissertation). University of South Florida, Tampa, FL.

- *Higgins, D. M., Peterson, J. B., Pihl, R. O., & Lee, A. G. M. (2007). Prefrontal cognitive ability, intelligence, Big Five Personality, and the prediction of advanced academic and workplace performance. *Journal of Personality and Social Psychology*, 93(2), 298-319.
- *Hirschfeld, R. R., Feild, H. S., & Bedeian, A. G. (2000). Work alienation as an individual-difference construct for predicting workplace adjustment: A test in two samples. *Journal of Applied Social Psychology*, 30(9), 1880-1902.
- Hochwarter, W. A., Perrewé, P. L., Hall, A. T., Ferris, G. R. (2005). Negative affectivity as a moderator of the form and magnitude of the relationship between felt accountability and job tension. *Journal of Organizational Behavior*, 26, 517-534.
- Hofstee, W. K. B., de Raad, B., & Goldberg, L. R. (1992). Integration of the Big Five and circumplex approaches to trait structure. *Journal of Personality and Social Psychology*, 63, 146-163.
- Hogan, R., & Hogan, J. (1994). Hogan Personality Inventory Manual. Tulsa, OK: Hogan Assessment Systems.
- *Hogan, J., Hogan, R. & Murtha, T. (1992). Validation of a personality measure of managerial performance. *Journal of Business & Psychology*, 7, 225-237.
- Hogan, J., & Holland, B. (2003). Using theory to evaluate personality and job-performance relations: A socioanalytic perspective. *Journal of Applied Psychology*, 88, 100-112.
- Hogan, J., & Roberts, B. (1996). Issues and non-issues in the fidelity/bandwidth tradeoff. *Journal of Organizational Behavior*, 17, 627-637.
- *Hogan, J., Rybicki, S. L., Motowidlo, S. J., & Borman, W. C. (1998). Relations between contextual performance, personality, and occupational advancement. *Human Performance*, 11(2-3), 189-207.

- Holloway, S., Tucker, L., & Hornstein, H.A. (1977). The effects of social and nonsocial information on interpersonal behavior of males: The news making news. *Journal of Personality and Social Psychology*, *35*, 514-522.
- Hoobler, J.M., & Brass, D.J. (2006). Abusive supervision and family undermining as displaced aggression. *Journal of Applied Psychology*, *91*, 1125-1133.
- Hopwood, C. J., Newman, D. A., Donnellan, M. B., Markowitz, J. C., Grilo, C. M., Sanislow, C. et al., (2009). The stability of personality traits in individuals with borderline personality disorder. *Journal of Abnormal Psychology*, 118, 806-815.
- Hough, L. M., Eaton, N. K., Dunnette, M. D., Kamp, J. D., & McCloy, R. A. (1990). Criterion-related validities of personality constructs and the effect of response distortion on those validities. *Journal of Applied Psychology*, 75, 581-595.
- Hough, L. M., & Ones, D. S. (2002). The structure, measurement, validity, and use of personality variables in industrial, work, and organizational psychology. In A. Neil & O.S. Ones (Eds.), *International Handbook of Work and Organizational Psychology* (pp. 233-277). Thousand Oaks, CA: Sage.
- *Houston, J.S., Borman, W.C., Farmer, W.L., & Bearden, R.M. (2005). Development of the enlisted computer adaptive personality scales (ENCAPS), renamed Navy Computer Adaptive Personality Scales (NCAPS). Technical Report No. 502. Navy Personnel Research.
- *Hui, C. H., Pak, S. T., & Cheng, K. H. C. (2009). Validation studies on a measure of overall managerial readiness for the Chinese. *International Journal of Selection and Assessment*, 17(2), 127-141.

- *Hung, T.-K., Chi, N.-W., & Lu, W.-L. (2009). Exploring the relationships between perceived coworker loafing and counterproductive work behaviors: The mediating role of a revenge motive. *Journal of Business and Psychology*, 24(3), 257-270.
- Hunter, J.E., & Schmidt, F.L. (2004). Methods of meta-analysis: Correcting error and bias in research findings (2nd ed.). Thousand Oaks, CA: Sage.
- *Hurley, R. F. (1998). Customer service behavior in retail settings: A study of the effect of service provider personality. *Academy of Marketing Science Journal*, 26 (2), 115-127.
- Hurtz, G. M., & Donovan J. J. (2000). Personality and job performance: The Big Five revisited. *Journal of Applied Psychology*, 85, 869-8791.
- *Hwang, G.S. (1988). *Validity of the California Psychological Inventory for Police Selection*.

 Unpublished master's thesis, North Texas State University, Denton, TX.
- Isen, A. M., Daubman, K. A., & Nowicki, G. P. (1987). Positive affect facilitates creative problem solving. *Journal of Personality and Social Psychology*, 52, 1122-1131.
- Isen, A. M., Johnson, M. M., Mertz, E., Robinson, G. F. (1985). The influence of positive affect on the unusualness of word associations. *Journal of personality and Social Psychology*, 48, 1413-1426.
- *Iverson, R. D., & Erwin, P. (1997). Predicting occupational injury: The role of affectivity,

 *Journal of Occupational and Organizational Psychology, 70, 113-129.
- *Jackson, C. J., & Corr, P. J. (1998) Personality-performance correlations at work: individual and aggregate levels of analyses. *Personality and Individual Difference*, 24(6), 815-820.
- *Jackson, C. L., Wesson, M. J., Colquitt, J.A., & Zapata-Phelan, C. P. (2006). Psychological collectivism: A measurement validation and linkage to group member performance. *Journal of Applied Psychology*, 91(4), 884-899.

- Jackson, D.N. (1994). Jackson Personality Inventory- Revised Manual. Port Huron, MI:
 Research Psychologists Press.
- *Jacobs, R. R., Conte, J. M., Day, D. V., Silva, J. M., & Harris, R. (1996). Selecting bus drivers:

 Multiple predictors, multiple perspectives on validity, and multiple estimates of utility.

 Human Performance, 9(3), 199-217.
- *Jenkins, M. & Griffith, R. (2004). Using personality constructs to predict performance: Narrow or broad bandwidth. *Journal of Business and Psychology*, *19* (2), 255-269.
- *Jockin, V., Arvey, R. D., & McGue, M. (2001). Perceived victimization moderates self-reports of workplace aggression and conflict. *Journal of Applied Psychology*, 86(6), 1262-1269.
- John, O.P., & Srivastava, S. (1999). The Big Five trait taxonomy: History, measurement, and theoretical perspectives. *Handbook of Personality: Theory and Research*, 2, 102-138.
- Jordan, P. J., Lawrence, S. A., & Troth, A. C. (2006). The impact of negative mood on team performance. *Journal of Management & Organization*, 12(2), 131-145.
- Joseph, D. L., & Newman, D. A. (2010). Emotional intelligence: An integrative meta-analysis and cascading model. *Journal of Applied Psychology*, 95, 54-78.
- Judge, T.A., & Bono, J.E. (2001). Relationship of core self-evaluations traits- self-esteem, generalized self-efficacy, locus of control, and emotional stability- with job satisfaction and job performance: A meta-analysis. *Journal of Applied Psychology*, 86, 80-92.
- Judge, T. A., Bono, J. E., Ilies, R., & Gerhardt, M. W. (2002). Personality and leadership: A qualitative and quantitative review. *Journal of Applied Psychology*, 87, 765-780.
- *Judge, T. A., & Erez, A. (2007). Interaction and intersection: The constellation of emotional stability and extraversion in predicting performance. *Personnel Psychology*, 60(3), 573-596.

- Judge, T. A., Heller, D., & Mount, M. K. (2002). Five-factor model of personality and job satisfaction: A meta-analysis. *Journal of Applied Psychology*, 87, 530-541.
- Judge, T.A., & Ilies, R. (2002). Relationship of personality to performance motivation: A metaanalytic review. *Journal of Applied Psychology*, 87, 797-807.
- *Judge, T. A., LePine, J. A., & Rich, B. R., (2006). Loving yourself abundantly: Relationship of the narcissistic personality to self and other perceptions of workplace deviance, leadership, and task and contextual performance. *Journal of Applied Psychology*, 91(4), 762-776.
- Judge, T.A., Thoresen, C.J., Bono, J.E., & Patton, G.K. (2001). The job-satisfaction-job performance relationship: A qualitative and quantitative review. *Psychological Bulletin*, 127, 376-407.
- Judge, T. A., Van Vianen, A. E. M., & De Pater, I. E. (2004). Emotional stability, core self-valuations, and job outcomes: A review of the evidence and an agenda for future research. *Human Performance*, 17, 325-34, 325-346.
- Keily, E. L., & Conley, J. J. (1987). Personality and compatibility: A prospective analysis of marital stability and marital satisfaction. *Journal of Personality and Social Psychology*, 52, 27-40.
- *Kieffer, K. M., Schinka, J. A., & Curtiss, G. (2004). Person-environment congruence and personality domains in the prediction of job performance and work quality. *Journal of Counseling Psychology*, *51*(2), 168-177.
- *King, E. B., George, J. M., & Hebl, M. R. (2005). Linking personality to helping behaviors at work: An interactional perspective. *Journal of Personality*, 73(3), 585-607.

- King, L. A., & Hicks, J. A. (2007). Whatever happened to "What might have been"? Regrets, happiness, and maturity. *American Psychologist*, 62, 625-636.
- *Kluemper, D. H., Little, L. M., & DeGroot, T. (2009). State or trait: effects of state optimism on job-related outcomes. *Journal of Organizational Behavior*, 30(2), 209-231.
- *Knapp, D. J. & McCloy, R. A. (2004). Validation of measures designed to maximize 21stCentury Army NCO performance (1145). Arlington, VA: United States Army Research
 Institute for the Behavioral and Social Sciences.
- *Kotrba, L. M. (2007). *The antecedents and consequences of the variability in job satisfaction* (Unpublished doctoral dissertation). Wayne State University, Detroit, MI.
- *Koy, A., & Yeo, G. (2008). BIS sensitivity, negative affect and performance: Dynamic and multilevel relationships. *Human Performance*, 21(2), 198-225.
- Krueger, R. F., Hicks, B. M., & McGue, M. (2001). Altruism and antisocial behavior:

 Independent tendencies, unique personality correlates, distinct etiologies. *Psychological Science*, 12, 397-402.
- *Laird, M. D., Perryman, A. A., Hochwater, W. A., Ferris, G. R., & Zinko, R. (2009). The moderating effects of personal reputation on accountability-strain relationships. *Journal of Occupational Health Psychology*, 14(1), 70-83.
- Lam, D., Smith, N., Checkley, S., Rijdijk, F., & Sham, P. (2003). Effect of neuroticism, response style and information processing on depression severity in a clinically depressed sample.

 Psychological Medicine, 33, 469-479.
- Larsen, R. J., & Ketelaar, T. (1991). Personality and susceptibility to positive and negative emotional states. *Journal of Personality and Social Psychology*, *61*, 132-140.

- Lazarus, R. S. (1991). Cognition and motivation in emotion. *American Psychologist*, 46, 352-367.
- Le, H., Oh, I.-S., Robbins, S. B., Ilies, R., Holland, E., & Westrick, P. (2010, October 11). Too much of a good thing: Curvilinear relationships between personality traits and job performance. *Journal of Applied Psychology*. Advance online publication. doi: 10.1037/a0021016.
- *LeBreton, J. M., Binning, J. F., Adorno, A. J. & Melcher, K. M. (2004). Importance of personality and job-specific affect for predicting job attitudes and withdrawal behavior.

 **Organizational Research Methods, 7(3), 300-325.
- *Lee, S. (2000). Cross-cultural validity of personality traits for predicting job performance of Korean engineers (Unpublished doctoral dissertation). Ohio State University, Columbus, OH.
- Lerner, J. S., Goldberg, J. H., & Tetlock, P. E. (1998). Sober second thought: The effects of accountability, anger, and authoritarianism on attributions of responsibility. *Personality and Social Psychology Bulletin*, 24, 563-574.
- Lerner, J. S., Gonzalez, R. M., Small, D. A., & Fischhoff, B. (2003). Effects of fear and anger on perceived risks of terrorism: A national field experiment. *Psychological Science*, *14*, 144-150.
- Lerner, J. S., & Keltner, D. (2000). Beyond valence: Toward a model of emotion specific influences on judgment and choice. *Cognition and Emotion*, *14*, 473-493.
- *Leslie, J., Dalton, M., Ernst, C., & Deal, J. (2002). *Managerial effectiveness in a global context*.

 Greensboro, NC: Center for Creative Leadership.

- Lewis, K. M. (2000). When leaders display emotion: How followers respond to negative emotional expression of male and female leaders. *Journal of Organizational Behavior*, 21, 221-234.
- *Liao, H., Joshi, A. & Chuang, A. (2004). Sticking out like a sore thumb: Employee dissimilarity and deviance at work. *Personnel Psychology*, *57*(4), 969-1000.
- * Linden, D. van der, Nijenhuis, J., & Bakker, A. B. (2010). The general factor of personality: A meta-analysis of Big Five intercorrelations and a criterion-related validity study. *Journal of Research in Personality*, 44, 315-327.
- *Loveland, J. M., Gibson, L. W., Lousbury, J. W., & Huffstetler. (2005). Broad and narrow personality traits in relation to job performance of camp counselors. *Child and Youth Care Forum*, 34, 241-255.
- Ludwig, A. M. (1994). Mental illness and creative activity in female writers. *The American Journal of Psychiatry*, 151, 1650-1656.
- *Lusch, R. F., & Serpkenci, R. R. (1990). Personal differences, job tension, job outcomes, and store performance: A study of retail store managers. *Journal of Marketing*, *54*(1), 85-101.
- Lyubomirsky, S., & Nolen-Hoeksema, S. (1995). Effects of self-focused rumination on negative thinking and interpersonal problem-solving. *Journal of Personality and Social Psychology*, 69, 176-190.
- Lyubomirsky, S., Tucker, K. L., Caldwell, N.D., & Berg, K. (1999). Why ruminators are poor problem solvers: Clues from the phenomenology of dysphoric rumination. *Journal of Personality and Social Psychology*, 77, 1041-1090.
- *Mabon, H. (1998). Utility aspects of personality and performance. *Human Performance*, 11(2-3), 289-304.

- Mackie, D. M., Devos, T., & Smith, E. R. (2000). Intergroup emotions: Explaining offensive action tendencies in an intergroup context. *Journal of Personality and Social Psychology*, 79, 602-616
- Manucia, G.K., Baumann, D.J., & Cialdini, R.B. (1984). Mood influences on helping: Direct effects or side effects? *Journal of Personality and Social Psychology*, 46, 357-364.
- Martin, J. H. & Diefendorff, J. M. (2003). *Differential effects of facets on motivation and performance*. Poster session presented at annual meeting of the Society for Industrial Organizational Psychologists, Orlando, FL.
- Martin, L., & Tesser, A. (1996). Some ruminative thoughts. *Advances in social cognition*, *9*, 1-48.
- Matthews, B., & Norris, F. (2002). When is believing 'seeing'? Hostile attribution bias as a function of self-reported aggression. *Journal of Applied Social Psychology*, 32, 1-32.
- McCrae, R. R., & Costa, P. T., Jr. (1997). Personality trait structure as a human universal.

 *American Psychologist, 52, 509-516.
- McCrae, R. R., Costa, P. T., Jr., & Dye, D. A. (1991). Facet scales for agreeableness and conscientiousness: A revision of the NEO Personality Inventory. *Personality and Individual Differences*, 12, 887-898.
- Mclean Parks, J., & Kidder, D.L. (1994). "Till death us do part..." Changing work relationships in the 1990s. *Trends in organizational behavior*, *1*, 111-136.
- *McManus, M. A. & Kelly, M. L. (1999). Personality measures and biodata: Evidence regarding their incremental predictive value in the life insurance industry. *Personnel Psychology*, 52(1), 137-148.

- Mershon, B., & Gorsuch, R. L. (1988). Number of factors in the personality sphere: Does increase in factors increase predictability of real-life criteria?. *Journal of Personality and Social Psychology*, *55*, 675-680.
- *Milam, A. C., Spitzmueller, C., & Penney, L. M. (2009). Investigating individual differences among targets of workplace incivility. *Journal of Occupational Health Psychology*, 14(1), 58-69.
- Moberg, P.J. (1998). Predicting conflict strategy with personality traits: Incremental validity and the five factor model. *International Journal of Conflict Management*, *9*, 258-285.
- Moon, H., Hollenbeck, J. R., Humphrey, S. E., & Maue, B. (2003). The tripartite model of neuroticism and the suppression of depressiong and anxiety within an escalation of commitment dilemma. *Journal of Personality*, 71, 347-368.
- Moore, B.S., Underwood, B., & Rosenhan, D.L. (1973). Affect and altruism. *Developmental Psychology*, 8, 99-104.
- Morgeson, F. P., Reider, M. H., & Campion, M. A. (2005). Selecting Individuals in team settings: The importance of social skills, personality characteristics, & teamwork knowledge. *Personnel Psychology*, *58*, 583-611.
- *Motowidlo, S. J. & Van Scotter, J. R. (1994). Evidence that task performance should be distinguished from contextual performance. *Journal of Applied Psychology*, 79, 475-480.
- Mount, M.K., & Barrick, M.R. (1998). Five reasons why the "Big Five" article has been frequently cited. *Personnel Psychology*, *51*, 849-857.
- *Mount, M. K., Barrick, M. R., & Strauss, J. P. (1994). Validity of observer ratings of the big five personality factors. *Journal of Applied Psychology*, 79(2), 272-280.

- *Mount, M., Ilies, R., & Johnson, E. (2006). Relationship of personality traits and counterproductive work behaviors: The mediating effects of job satisfaction. *Personnel Psychology*, *59*(*3*), 591-622.
- *Mount, M. K., Witt, L. A., & Barrick, M. R. (2000). Incremental validity of empirically keyed biodata scales over GMA and the five factor personality constructs. *Personnel Psychology*, *53*(2), 299-322.
- *Muchinsky, P. M. (1993). Validation of personality constructs for the selection of insurance industry employees. *Journal of Business & Psychology*, 7, 475-482.
- Muraven, M., & Baumeister, R. F. (2000). Self-regulation and depletion of limited resources:

 Does self-control resemble a muscle? *Psychological Bulletin*, *126*, 247-259.
- Muraven, M., Tice, D. M., & Baumeister, R. F. (1998). Self-control as limited resource:

 Regulatory depletion patterns. *Journal of Personality and Social Psychology*, 74, 774–789.
- *Murray, B. R., & Zimmerman, R. D. (2009). Hiring for retention and performance. *Human Resource Management*, 48(2), 183-206.
- *Neubert, M. J., Kacmar, K. M., Carlson, D. S., Chonko, L. B., & Roberts, J. A. (2008)

 Regulatory focus as a mediator of the influence of initiating structure and servant leadership on employee behavior. *Journal of Applied Psychology*, 93, 1220-1233.
- *Neuman, G. A., & Wright, J. (1999). Team effectiveness: Beyond skills and cognitive ability.

 *Journal of Applied Psychology, 84(3), 376-389.
- Nolen-Hoeksema, S., & Davis, C. G. (1999). "Thanks for sharing that": Ruminators and their social support networks. *Journal of Personality and Social Psychology*, 77, 801-814.

- Nolen-Hoeksema, S., Wisco, B. E., & Lyubomirsky, S. (2008). Rethinking rumination.

 *Perspectives on Psychological Science, 3, 400-424.
- Norman, W. T. (1963). Toward an adequate taxonomy of personality attributes: Replicated factor structure in peer nomination personality ratings. *The Journal of Abnormal and Social Psychology*, 66, 574-583.
- Nunnally, J.C. (1978). Psychometric theory. New York: McGraw-Hill.
- *O'Connell, M. S., Doverspike, D., Norris-Watts, C., & Hattrup, K. (2001). Predictor of organizational citizenship behavior among Mexican retail salespeople. *International Journal of Organizational Analysis*, 9(3), 272-280.
- Ones, D.S., & Viswesvaran, C. (1996). Bandwidth-fidelity dilemma in personality measurement for personnel selection. *Journal of Organizational Behavior*, 17, 609-626.
- Ones, D. S., Viswesvaran, C., & Schmidt, F. L. (1993). Comprehensive meta-analysis of integrity test validities: Findings and implication for personnel selection and theories of job performance. *Journal of Applied Psychology*, 78, 679-703.
- Organ, D.W. (1988). Organizational Citizenship behavior: The good soldier syndrome.

 Lexington, MA: Lexington Books.
- Organ, D.W. (1990). The motivational basis of organizational citizenship behavior. *Research in organizational behavior*, 12, 43-72.
- Organ, D.W. (1997). Organizational citizenship behavior: It's construct clean-up time. *Human Performance*, 10, 85-97.
- Orr, J.M., Sackett, P.R., & Mercer, M. (1989). The role of prescribed and nonprescribed behaviors in estimating the dollar value of performance. *Journal of Applied Psychology*, 74, 34-40.

- Ortony, A., Clore, G. L., & Collins, A. (1988). The cognitive structure of emotions. New York, NY: Cambridge University Press.
- *Osman, K. M, & Olusegun, O. A. (2009). The effects of job and personal resources on hotel employees' work engagement. *International Journal of Hospitality Management*, 28(4), 504-512.
- Oswald, F., Campbell, J., McCloy, R., Rivkin, D., & Lewis, P. (1999). Stratifying occupational units by specific vocational preparation. Raleigh, NC: National Center for O*NET Development.
- Ozer, D., & Benet-Martinez, V. (2006). Personality and the prediction of consequential outcomes. *Annual Review of Psychology*, *57*, 401-421.
- Paajanen GE. (1986, August). Development and validation of the PDI Employment Inventory.

 Paper presented at the Ninety-Fourth Annual Convention of the American Psychological Association, Washington, DC.
- Paunonen, S. V. (1998). Hierarchical organization of personality and prediction of behavior. *Journal of Personality and Social Psychology*, 74, 538-556.
- Paunonen, S. V., & Jackson, D. N. (1996). The Jackson Personality Inventory and the five-factor model of personality. *Journal of Research in Personality*, 30, 42-59.
- Pekrun, R., Elliot, A. J., & Maier, M. A. (2009). Achievement goals and achievement emotions:

 Testing a model of their joint relations with academic performance. *Journal of Educational Psychology*, 101(1), 115-135.
- Penley, J. A., & Tomaka, J. (2002). Associations among the Big Five, emotional responses, and coping with acute stress. *Personality & Individual Differences*, 32, 1215-1228.

- Penney, L.M., & Spector, P.E. (2005). Job stress, incivility, and counterproductive work behavior (CWB): The moderating role of negative affectivity. *Journal of Organizational Behavior*, 26, 777-796.
- *Perkins, A. M., & Corr, P. J. (2005). Can worriers be winners? The association between worrying and job performance. *Personality and Individual Differences*, 38(1), 25-31.
- Piedmont, R. L., McCrae, R. R., & Costa, P. T. (1991). Adjective check list scales and the five-factor model. *Journal of Personality and Social Psychology*, 60(4), 630-637.
- *Piedmont, R. L., & Weinstein, H. P., (1994). Predicting supervisor ratings of job performance using the NEO personality inventory. *Journal of Psychology*, *128(3)*, 255-265.
- Posner, M.I., & Rothbart, M.K. (2000). Developing mechanisms of self-regulation. *Development and Psychopathology*, 12, 427-441.
- Prati, L. M., Liu, Y., Perrewe, P. L., Ferris, G. R. (2009). Emotional intelligence as moderator of the surface acting—Strain relationship. *Journal of Leadership & Organizational Studies*, 15(4), 368-380.
- *Pugh, G. (1985). The California Psychological Inventory and police selection. *Journal of Police Science and Administration*, 13(2), 172-177.
- *Pulakos, E. D., Borman, W. C., & Hough, L. M. (1988). Test validation for scientific understanding: Two demonstrations of an approach to studying predictor-criterion linkages. *Personnel Psychology*, 41(4), 703-716.
- *Radwinsky, R. L. (1999). The effect of psychological contracts on the performance of temporary employees (Unpublished doctoral dissertation). University of Tulsa, Tulsa, OK.

- *Restubog, S. L. D., Garcia, P. R. J. M., Wang, L., & Cheng, D. (2010). It's all about control: The role of self-control in buffering the effects of negative reciprocity beliefs and trait anger on workplace deviance. *Journal of Research in Personality*, 44(5), 655-660.
- *Richards, D. A., & Schat, A. C. H. (2010, August 16). Attachment at (not to) work: Applying attachment theory to explain individual behavior in organizations. *Journal of Applied Psychology*. Advance online publication. doi: 10.1037/a0020372.
- Roberts, B. W., Chernyshenko, O., Stark, S., & Goldberg, L. (2005). The structure of conscientiousness: An empirical investigation cased on seven major personality questionnaires. *Personnel Psychology*, 58, 103-139.
- *Roberts, B., W., Harms, P. D., Caspi, A., & Moffitt, T. E. (2007). Predicting the counterproductive employee in a child to adult prospective study. *Journal of Applied Psychology*, 92, 1427-1436.
- Roberts, J. E., Gilboa, E., & Gotlib, I. H. (1998). Ruminative response style and vulnerability to episodes of dysphoria: Gender, neuroticism, and episode duration. *Cognitive Therapy and Research*, 22, 401-423.
- *Robins, K. W. (1994). Effects of personality and situational judgment on job performance (Unpublished doctoral dissertation). University of California, Berkley, CA.
- Robins, R. W., Caspi, A., Moffitt, T. E. (2002). It's not just who you are with, it's who you are:

 Personality and relationship experiences across multiple relationships. *Journal of Personality*, 70, 925-964.
- Robinson, S, & Bennett, R. (1995). A typology of deviant workplace behaviors: a multidimensional scaling-study. *Academy of Management Journal*, 38, 555-572.

- *Roddell, J.B., & Judge, T.A. (2009). Can "good" stressors spark "bad" behaviors?: The mediating role of emotions in links of challenge and hindrance stressors with citizenship and counterproductive behaviors. *Journal of Applied Psychology*, *94*, 1438-1451.
- *Rode, J. C., Arthaud-Day, M. L., Mooney, C. H., Near, J. P., & Baldwin, T. T. (2008). Ability and personality predictors of salary, perceived job success, and perceived career success in the initial career stage. *International Journal of Selection and Assessment*, 16(3), 292-299.
- Roseman, I. J. (1984). Cognitive determinants of emotion: A structural theory. *Review of Personality and Social Psychology*, *5*, 11-36.
- Roseman, I. J. (1991). Appraisal determinants of discrete emotions. *Cognition and Emotion*, *5*, 161-200.
- Rosenhan, D.L., Salovey, P., Karylowski, J., & Hargis, K. (1981). Emotion and altruism. In J.P. Rushton & R.M. Sorrentina (Eds.), *Altruism and helping behavior: Social, personality, and developmental perspectives*. Hillsdale. NJ: Erlbaum.
- Roth, S., & Cohen, L.J. (1986). Approach, avoidance, and coping with stress. *American Psychologist*, 41, 813-819.
- Rotundo, M., & Sackett, P. R. (2002). The relative importance of task, citizenship, and counterproductive performance to global ratings of job performance: A policy-capturing approach. *Journal of Applied Psychology*, 87, 66-80.
- Roznowski, M., & Hanisch, K. A. (1990). Building systematic heterogeneity into work attitudes and behavior measures. *Journal of Vocational Behavior*, *36*, 361-375.

- Sackett, P.R. (2002). The structure of counterproductive work behaviors: Dimensionality and relationships with facets of job performance. *International Journal of Selection and Assessment. Special Issue: Counterproductive behaviors at work, 10,* 5-11.
- Salgado, J. F. (2002). The big five personality dimensions and counterproductive behaviors.

 International Journal of Selection & Assessment, 10, 117-125.
- *Salgado, J. F. & Rumbo, A. (1997). Personality and job performance in financial service managers. *International Journal of Selection and Assessment*, *5*(2), 91-100.
- *Sanz, J., García-Vera, M. P., Magán, I. (2010). Anger and hostility from the perspective of the Big Five personality model. *Scandinavian Journal of Psychology*, *51*(3), 262-270.
- Saucier, G., & Ostendorf, F. (1999). Hierarchical subcomponents of the Big Five personality factors: A cross-language replication. *Journal of Personality and Social Psychology*, 76, 613-627.
- *Saville, P., Sik, G., Nyfield, G., Hackston, J., & MacIver, R. (1996). A demonstration of the validity of the Occupational Personality Questionnaire (OPQ) in the measurement of job competencies across time and in separate organizations. *Applied Psychology: An International Review*, 45, 243-262.
- *Savoy, P. J. (2004). Development and validation of a measure of self-directed learning competency (Unpublished doctoral dissertation). Kent State University, Kent, OH.
- Savoystyanov, A. N., Tsai, A. C., Liou, M., Levin, E. A., Lee, J.-D., Yurganov, A. V., et. al. (2009). EEG correlates of trait anxiety in the stop-signal paradigm. *Neuroscience Letters*, 449, 112-116.
- Scher, S. J. (1997). Measuring the consequences of injustice. *Personality and Social Psychology Bulletin*, 23, 482-497.

- Scherer, K. R. (1999). On the sequential nature of appraisal processes: Indirect evidence from a recognition task. *Cognition and Emotion*, *13*, 763-793.
- Scherer, K. R. (2001). Appraisal considered as a process of multilevel sequential checking. In K. R. Scherer, A. Schorr, & T. Johnstone (Eds.), *Appraisal processes in emotion: Theory, methods, research* (pp. 92-120). New York, NY: Oxford University Press.
- Schmeichel, B. J. & Vohs, K. D. (2003). Self-regulation and extended now: Controlling the self alters the subjective experience of time. *Journal of Personality and Social Psychology*, 85, 217-230.
- Schmeichel, B. J., Vohs, K. D., Baumeister, R. F. (2003). Intellectual performance and ego depletion: Role of the self in logical reasoning and other information processing. *Journal of Personality and Social Psychology*, 85, 33-46.
- Schmidt, G. & Weiner, B. (1988). An attribution-affect-action theory of behavior: Replications of judgments of help-giving. *Personality and Social Psychology Bulletin*, 14, 610-621.
- *Schmit, M., Kihm, J. A., & Robie, C. (2000) Development of a global measure of personality.

 *Personnel Psychology, 53, 153- 193.
- Schneider, T. R. (2004). The role of Neuroticism on psychological and physiological stress responses. *Journal of Experimental Social Psychology*, 40, 795-804.
- *Schuerger, J. M., Kochevar, K. F., & Reinwald, J. E. (1982). Male and female corrections officers: Personality and rated performance. *Psychological Reports*, *51*(1), 223-228.
- *Seo, M., & Ilies, R. The role of self-efficacy, goal, and affect in dynamic motivational self-regulation. *Organizational Behavior and Human Decision Processes*, 109(2), 120-133.

- *Shaffer, M. A, Harrison, D. A, Gregersen, H, Black, J. S, & Ferzandi, L. A. (2006). You can take it with you: Individual differences and expatriate effectiveness. *Journal of Applied Psychology*, *91(1)*, 109-125.
- *Shaw, J. D., & Gupta, N. (2004). Job complexity, performance, and well-being: When does supplies-values fit matter? *Personnel Psychology*, *57*, 847-879.
- *Shin, H. (2006). *Main and interaction effects of personality and P-O fit in personnel selection* (Unpublished doctoral dissertation). University of Tulsa, Tulsa, OK.
- Skarlicki, D. P., & Folger, R. (1997). Retaliation in the workplace: The roles of distributive, procedural, and interactional justice. *Journal of Applied Psychology*, 82, 434-443.
- Slaughter, J. E., & Kausel, E. E. (2010). The neurotic employee: Theoretical analysis of the influence of narrow facets of neuroticism on cognitive, social, and behavioral processes relevant to job performance. In J. Martocchio & H. Liao (Eds.), *Research in Personnel and Human Resources Management*.
- Small, D.A., & Lerner, J.S. (2005). Emotional politics: Personal sadness and anger shape public welfare preferences. Paper presented at the Society for Personality and Social Psychology, New Orleans, LA.
- *Small, E. E., & Diefendorff, J. M. (2006). The impact of contextual self-ratings and observer ratings of personality on the personality-performance relationship. *Journal of Applied Social Psychology*, *36*, 297-320.
- *Smillie, L. D, Yeo, G. B, Furnham, A. F, & Jackson, C. J. (2006). Benefits of all work and no play: The relationship between neuroticism and performance as a function of resource allocation. *Journal of Applied Psychology*, *91(1)*, 139-155.

- Smith, T. W., & Spiro, A. III. (2002). Personality, health and aging: Prolegomenon for the next generation. *Journal of Research in Personality*, *36*, 363-394.
- *Sosik, J. J., & Megerian, L. E. (1999). Understanding leader emotional intelligence and performance: the role of self-other agreement on transformational leadership perceptions. *Group and Organization Management*, 24(3), 367-390.
- Spector, P.E. (1978). Organizational frustration: A model and review of literature. *Personnel Psychology*, *31*, 815-829.
- Spector, P.E., & Fox, S. (2002). An emotion-centered model of voluntary work behavior: Some parallels between counterproductive work behavior and organizational citizenship behavior. *Human Resources Management Review*, 12, 376-391.
- Spector, P.E., & Fox, S. (2010). Counterproductive behavior and organizational citizenship behavior: Are they opposite forms of active behavior? *Applied Psychology: An International Review*, 59, 21-39.
- Spielberger, C.D. (1996). *Preliminary manual for the State-Trait Personality Inventory (STPI)*.

 Tampa, FL: Human Resource Institute, University of South Florida.
- Spielberger, C. D. (1999). *Manual for the State-Trait Anger Expression Inventory-2*. Odessa, FL: Psychological Assessment Resources.
- Stark, S., Drasgow, F., & Chernyshenko, O. S. (2008, October). *Update on the Tailored Adaptive Personality Assessment System (TAPAS): The next generation of personality assessment systems to support personnel selection and classification decisions*. Paper presented at the 50th annual conference of the International Military Testing Association, Amsterdam, the Netherlands.

- Steel, P. (2007). The nature of procrastination: A meta-analytic and theoretical review of quintessential self-regulatory failure. *Psychological Bulletin*, *133*, 65-94.
- Steel, P., Schmidt, J., & Shultz, J. (2008). Refining the relationship between personality and subjective well-being. *Psychological Bulletin*, *134*(1), 138-161.
- *Stewart, G. L., Barrick, M. R., & Parks, L. (2003). A theoretical and empirical analysis of broad and narrow traits. Paper presented at the Annual conference for Industrial and Organizational Psychology, Orlando: FL.
- *Strauss, J., Barrick, M. R., & Connerley, M. L. (2001). An investigation of personality similarity effects (relational and perceived) on peer and supervisor ratings and the role of familiarity and liking. *Journal of Occupational and Organizational Psychology*, 74(5), 637-657.
- *Super, J. T. (1995). Psychological characteristics of successful SWAT/tactical response team personnel. *Journal of Police and Criminal Psychology*, *11*(1), 60-63.
- *Surrette, M. A., Aamodt, M. G., & Serafino, G. (1990). *Validity of the New Mexico police* selection battery. Paper presented at the annual meeting of the Society for Police and Criminal Psychology, Albuquerque, NM.
- Tellegen, A. (1982). Brief manual for the Multidimensional Personality Questionnaire.

 Unpublished manuscript, University of Minnesota, Minneapolis.
- Tepper, B. J., Moss, S. E., & Lockhart, D. E. (2007). Abusive supervision, upward maintenance communication, and subordinates' psychological distress. *Academy of Management*, *50*, 1169-1180.
- Tett, R. P., Jackson, D. N., & Rothstein, M. (1991). Personality measures as predictors of job performance: A meta-analytic review. *Personnel Psychology*, *44*(4), 703-742.

- *Tett, R. P., Steele, J. R., & Beauregard, R. S. (2003). Broad and narrow measures on both sides of the personality-job performance relationship. *Journal of Organizational Behavior*, 24 (3), 335-356.
- Thompson, W. C., Cowan, C.L., & Rosenhan, D.L. (1980). Focus of attention mediated the impact of negative affect on altruism. *Journal of Personality and Social Psychology*, 38, 291-300.
- *Thoresen, C. J. (2000). Antecedents and consequences of coping with setbacks at work: A theory-driven framework (Unpublished doctoral dissertation). University of Iowa, Iowa City, IA.
- *Thoresen, C. J., Bradley, J. C., Bliese, P. D., & Thoresen, J. D. (2004). The big five personality traits and individual job performance growth trajectories in maintenance and transitional job stages. *Journal of Applied Psychology*, 89(5), 835-853.
- Tice, D.M., & Baumeister, R. F. (1997). Longitudinal study of procrastination, performance, stress, and health: The costs and benefits of dawdling. *Psychological Reports*, 8, 454-458.
- Tiedens, L. Z. (2001). Anger and advancement versus sadness and subjugation: The effect of negative emotion expressions on social status conferral. *Journal of Personality and Social Psychology*, 80, 86-94.
- *Timmerman T. A. (2004). Relationships between NEO-PI-R personality measures and job performance ratings of inbound call center employees. *Applied HRM Research*, 9, 35-38.
- Tong, E. M. W. (2010). Personality influences in appraisal-emotion relationships: The role of Neuroticism. *Journal of Personality*, 78, 393-417.

- Tong, E. M. W., Bishop, G. D., Enkelmann, H. C., Why, Y. P., Diong, S. M., Ang, J., Khader,
 M. (2006). The role of the big five in appraisals. *Personality and Individual Differences*,
 41, 513-523.
- Trull, T. J., & Sher, K. J. (1994). Relationship between the five-factor model of personality and Axis I disorders in a nonclinical sample. *Journal of Abnormal Psychology*, 103, 350-360.
- Tupes, E.C., & Christal, R.E. (1961). Recurrent personality factors based on trait ratings.

 Lackland Air Force Base, TX: Aeronautical Systems Division, Personnel Laboratory.
- *Tyler, G. P., & Newcombe, P. A. (2006). Relationship between work performance and personality traits in Hong Kong organizational settings. *International Journal of Selection and Assessment*, 14(1), 37-50.
- Underwood, B., Berenson, J. F., Berenson, R. J., Cheng, K. K., Wilson, D., Kulik, J., et al., (1977). Attention, negative affect, and altruism: An ecological validation. *Personality and Social Psychology Bulletin*, *3*, 54-58.
- Van Iddekinge, C. H., Taylor, M. A., & Eidson, C. E., Jr. (2005). Broad versus narrow facets of integrity: Predictive validity and subgroup differences. *Human Performance*, 18, 151-177.
- Viswesvaran, C., & Ones, D. S. (2000). Perspectives on models of job performance.

 International Journal of Selection and Assessment, 8, 216-226.
- Vohs, K. D., & Schmeichel, B. J. (2003). Self-regulation and extended now: Controlling the self alters the subjective experience of time. *Journal of Personality and Social Psychology*, 85, 217-230.

- *Warr, P., Bartram, D., & Martin, T. (2005). Personality and sales performance: variation and interactions between traits. *International Journal of Selection and Assessment*, 13(1), 87-91.
- Watson, D. (2000). Mood and temperament. New York, NY: Guilford Press.
- Weeks, W.A., Roberts, J., Chonko, L.B., & Jones, E. (2004). Organizational readiness for change, individual fear of change, and sales manager performance: An empirical investigation. *Journal of Personal Selling and Sales Management*, 24, 7-18.
- *Weibaecher, A. D. (2000). Self-reported personality measures of fake good in employment selection (Unpublished doctoral dissertation). University of Tennessee, Knoxville, TN.
- Weinberg, R. S. (1990). Anxiety and motor performance: Where to from here? *Anxiety Research*, 2, 227-242.
- *Westerman, J. W. & Simmons, B. L. (2007). The effects of work environment on the personality-performance relationship: An exploratory study. *Journal of Managerial Issues*, *19*, 288-305.
- Whiting, S.W., Podsakoff, P.M., & Pierce, J.R. (2008). Effects of task performance, helping, voice, and organizational loyalty on performance appraisal ratings. *Journal of Applied Psychology*, 93, 125-139.
- Williams, J. M. G., Watts, F.N., MacLeod, C., & Mathews, A. (1997). Cognitive psychology and emotional disorders. 2nd Ed. Chichester, UK: Wiley.
- *Williams, S., & Shiaw, W. T. (1999). Mood and organizational citizenship behavior: the effects of positive affect on employee organizational citizenship behavior intentions. *Journal of Psychology*, 133(6), 656-668.

- *Witt, L. A., Kacmar, M., Carson, D. S., & Zivnuska, S. (2002). Interactive effects of personality and organizational politics on contextual performance. *Journal of Organizational Behavior*, 23, 911-926.
- *Wolfe, R. (1993). Experience, gender, marital status, and the 16PF questionnaire as predictors of American teachers' effectiveness in Southeast Asia schools (Unpublished doctoral dissertation). University of Oregon, Eugene, OR.
- *Wright, B. S., Doerner, W. G., Speir, J. C. (1990). Pre-employment psychological testing as a predictor of police performance during an FTO program. *American Journal of Police*, *9*(4), 65-83.
- *Wright T. A., Cropanzano R., & Meyer, D. G. (2004). State and trait correlates of job performance: A tale of two perspectives. *Journal of Business and Psychology*, 18, 365-384.
- *Yoon, K. (1997). General mental ability and the big five personality dimensions: An investigation of the cross-cultural generalizability of their construct and criterion-related validities in Korea (Unpublished doctoral dissertation). University of Iowa, Iowa City, IA.
- *Yperen, N. W. van (2003). On the link between different combinations of Negative Affectivity (NA) and Positive Affectivity (PA) and job performance. *Personality and Individual Differences*, *35*, 1873-1881.
- Zhao, H. & Seibert, S. E. (2006). The Big Five Personality Dimensions and Entrepreneurial Status: A meta-analytic review. *Journal of Applied Psychology*, *91*, 259-271.

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