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LOCUS OF CONTROL, SOURCES OF MOTIVATION, AND MENTAL BOUNDARIES AS ANTECEDENTS OF LEADER–MEMBER EXCHANGE QUALITY

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Summary.—In this study were examined leaders’ and members’ scores on locus of control, sources of motivation, and mental boundaries to predict the quality of leader–member exchanges. 80 elected officials and their 388 direct reports were sampled in a field study. Analysis indicated followers’ scores on locus of control, leaders’ scores of self-concept internal motivation, leaders’ scores on locus of control, and followers’ rated goal-internalization motivation were positively related to leader–member exchanges. Implications and directions for research are discussed.

Research on the antecedents of leader–member exchange has been extensive over the past 25 years (Graen & Uhl-Bien, 1995). Studies testing the antecedents of leader–member exchange have included sex of participants (Tsui & O’Reilly, 1989; Wayne, Liden, & Sparrowe, 1994), attitude and personality similarity (Dienesch & Liden, 1986; Wayne & Ferris 1990; Liden, Wayne, & Stilwell, 1993; Phillips & Bedeian, 1994), work values (Steiner & Dobbins, 1989), liking (Dockery & Steiner, 1990; Liden, et al., 1993), liking from the members’ perspectives (Liden, et al., 1993), personality (Burns, 1995), locus of control, least preferred coworker, power, and achievement needs to predict leader–member exchange (McClane, 1991) and locus of control (Kinicki & Vecchio, 1994; Martin, Thomas, Charles, Epitropaki, & McNamara, 2005). These studies have contributed to an expansive body of knowledge for understanding the origin of leader–member exchange.

Graen and Uhl-Bien (1995) called for continued research, suggesting that antecedents in this area have just begun to be specified. To date, no studies have examined such dispositional variables as sources of motivation and mental boundaries. This is of concern because motivation has been used to predict many leadership phenomena (Barbuto, 1998; Barbuto & Scholl, 1999; Barbuto, Fritz, & Marx, 2000). Examining these variables in a predictive framework is a necessary step to discover antecedents of leader–member exchange.

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Leader–Member Exchange

Leader–Member Exchange refers to the unique relationship quality which leaders develop with subordinates. It was originally termed Vertical Dyad Linkage (Dansereau, Cashman, & Graen, 1973) but was later renamed leader–member exchange (Graen, Novak, & Sommerkamp, 1982). Leader–member exchange concerns the extent to which leaders and followers have developed a trusting, autonomous, and mutually beneficial relationship (Graen & Uhl-Bien, 1995). Different factors may change the quality of developed leader–member exchanges so it is important that this approach must reflect attention to unique qualities each member of the dyad brings to the relationship. In this study the link between leaders’ locus of control and leader–member exchange in addition to effects of followers’ locus of control on this relationship were tested as well as leaders’ mental boundaries and sources of motivation as predictors of leader–member exchange.

Locus of Control

Researchers have stated that locus of control is an important construct in explaining behavior in the organizational settings. Rotter (1966) noted that subordinates’ internal-external locus of control is one variable of possible importance in the role-making process. Both Spector (1982) and Hawk (1989) suggested that an appropriate supervisory style depends on subordinates’ locus of control. Kinicki and Vecchio (1994) also regarded employees’ locus of control as a suspected antecedent of dyadic quality and reported significant correlation between leader–member exchange and employees’ locus of control, which was also correlated with organizational commitment. Rotter (1966) argued that when a person perceives reinforcement to be contingent on behavior, an internal locus of control is operational, whereas when such reinforcements are attributed to chance, luck, powerful others, or the complexity of the situation, then external locus of control is evident.

Individuals with an internal locus of control ascribe control of events to themselves, while those having external locus of control attribute control to outside forces. Persons who score as internal relative to those whose scores indicate an external view have been reported to show higher work motivation, effort, performance, job satisfaction, larger starting salaries, and larger salary increases (Spector, 1982; Nystrom, 1983). Therefore, those scoring high on internal locus of control are likely to control outcomes via initiative-based rather than compliance-based behaviors.

In the leader–member exchange model, such leader-to-follower negotiation is characteristic of high quality exchanges (Phillips & Bedeian, 1994). Johnson, Luthans, and Hennessey (1984) found that locus of control accounted for a small amount of the variance of the leaders’ influence be-
haviors, as was the case with the previous research. Phares (1973) suggested that, although little variance was observed, the consistency across studies was evidence of the robustness of the construct. Johnson, et al. (1984) stated that subordinates’ satisfaction was higher when supervisors scored as internal in locus of control. Howell and Avolio (1993) found internal locus of control to be positively related to ratings of transformational leadership behavior. Deluga (1992) and Howell and Hall-Merenda (1999) explicitly tested the hypothesis that high quality leader–member exchange was associated with transformational leadership. Gerstner and Day (1997) emphasized that the behavioral manifestations of high leader–member exchange are categorically similar to those practiced in transformational leadership. Locus of control then represents a key personal characteristic, which should share a positive relationship with leader–member exchange.

Hypothesis 1: Scores on internal locus of control of leaders will be positively related to leader–member exchange.

Mental Boundaries

Mental boundaries have been described in the literature since Sigmund Freud’s early work on hierarchical ordering of neurological structures (Freud, 1933), but efforts to measure these boundaries empirically have been scant until recently. Mental boundaries, first conceptualized and measured by Hartmann (1991), are psychological constructs relating to how individuals view themselves and the world around them. Hartmann (1991) developed 12 categories of mental boundaries, each having a wide range of application from dream patterns, interpersonal relationships, opinions about nations and people, to opinions about organizations and groups.

Mental boundaries evolved from Freud’s idea that the conscious and unconscious aspects of mind form a distinct and measurable construct (Houran, Thalbourne, & Hartmann, 2003). Hartmann, Rosen, and Rand (1998) described the 138-item boundary questionnaire as a measure of the extent of separateness versus connectedness across mental functions.

Hartmann (1991) described individuals with thick mental boundaries as placing less value on relationships and more value on structure. This stems from the personal distance necessitated by thick mental boundaries. It follows that individuals more concerned with categorization and distance may resort to increased use of aggressive, coercive, or socially unacceptable actions. In addition, previous perceptions of effective leadership have been associated with masculine and dominant behaviors (Lord, DeVader, & Alliger, 1986).

Hartmann (1991) described individuals with thin mental boundaries as those who become easily involved with others, even losing their
identity in the process. Individuals with thin mental boundaries are consequently more likely to favor the development of strong interpersonal bonds and willingly relinquish interpersonal space. Followers with thick mental boundaries are predisposed to use hard influence, prefer structure and order in their environment, and do not value relationships as highly. They would not naturally use “soft” tactics to gain compliance because soft tactics require mutual vulnerability and fluidity of roles.

If leaders and followers share similar mental boundaries, they are classified as congruent. When mental boundaries are categorically different, they may be classified as incongruent. In situations in which leaders and followers have thick mental-boundary congruence, leaders are likely to exhibit a mutual respect for each other’s personal space and formalities. Individuals with thick mental boundaries are sensitive to demanding special favors or invading the personal space of others. As a result, they are inclined to adopt soft influence strategies, which reinforce mutual respect, courtesy, and professionalism.

In situations when the leader and follower have thin mental-boundary congruence, leaders are likely to suspend all the formalities and procedures in influence processes. As a result, leaders may demand special favors and violate the interpersonal space of others. In these instances, with thin mental-boundary congruence, followers may not mind their space being invaded, which propagates the informality.

For interpersonal relationships, thin boundaries reflect interactions which are less clearly defined and thicker boundaries reflect relationship expectations which are predictably defined. In terms of diversity, individuals with thicker boundaries typically are drawn to people who are personally similar racially, religiously, or organizationally. Those with thinner boundaries tend to mix with people who are different from them. Barbuto and Plummer (1998) compared Hartmann’s thick and thin boundaries with Jung’s psychological types (1923/1971) and found that the boundary questionnaire measures a personality dimension unique from those measured on the Myers–Briggs Personality Type Indicator. It was expected that mental boundaries would have a positive relation with leader–member exchanges.

Hypothesis 2a: Leaders’ thin mental boundaries will be positively related to leader–member exchange.

Hypothesis 2b: Leaders’ thin mental boundaries will be negatively related to leader–member exchange variance among employees.

Source of Motivation

Motivation has been studied from many perspectives, including need-based hierarchical models (Maslow, 1954; Alderfer, 1969), trichotomy of needs (McClelland, 1961), motivation and hygiene factors (Herz-
berg, 1968), and intrinsic or extrinsic dichotomies (Deci, 1975). Scholars have argued that although there are a variety of motivation theories, there is neither a unifying theme nor research support (Locke & Henne, 1986). More recent articulations have proposed an integrative content-based model of work motivation (Leonard, Beauvais, & Scholl, 1999). Leonard, et al. (1999) synthesized current theories and proposed a meta-theory of work motivation based on five sources. This typology accounts for the diversity of motives in the work place with five sources, namely, intrinsic process, instrumental, self-concept external, self-concept internal, and goal internalization.

Intrinsic process motivation.—Intrinsic process motivation is evident when workers are motivated to engage in an activity because they enjoy doing it. People are motivated by the work because it is enjoyable. Intrinsic process motivation is characterized by an enjoyment in the work (Barbuto, Fritz, & Marx, 2002). Workers’ fun in their work setting may inspire those classified as followers to emulate the leaders’ behavior and incorporate enjoyment and pleasure with work (Avolio, Waldman, & Einstein, 1988).

Hypothesis 3: Leaders’ intrinsic process motivation will be positively related to leader–member exchange.

Instrumental motivation.—Instrumental motivation is derived from tangible outcomes and is evident when individuals engage in behaviors to receive material gains such as pay, promotions, and bonuses. Instrumentally motivated leaders see the value in a reward system for employees (Barbuto, et al., 2002). Similarly, transactional leaders work within a system of reward and punishment for employees (Bass, 1990). Scholars have drawn many behavioral comparisons between transactional leadership and low leader–member exchange so one might expect leaders high in instrumental motivation would likely have low quality of leader–member exchanges (Gerstner & Day, 1997).

Hypothesis 4: Leaders’ instrumental motivation will be negatively related to leader–member exchange.

Self-concept external motivation.—Self-concept external motivation is derived from a strong desire to solicit and receive positive affirmation of traits, competencies, and values (Leonard, et al., 1999). If individuals perform behaviors to garner affirmation from others, then self-concept external motivation may be said to occur.

Prior research has shown a negative relationship between self-concept external motivation with transformational leadership (Barbuto, et al., 2000). It was expected that self-concept external motivation would share many characteristics with transactional leadership as well as charismatic leadership. Since leader–member exchange and transformational lead-
ership have been described as behaviorally similar, one may expect that leaders with high self-concept external motivation would likely have low quality leader–member exchange processes (Gerstner & Day, 1997).

Hypothesis 5: Leaders’ self-concept external motivation will be negatively related to leader–member exchange.

**Self-concept internal motivation.**—Self-concept internal motivation is derived from internal standards of achievement which become the basis for self-evaluation of traits, competencies, and values (Leonard, *et al.*, 1999). If individuals engage in a behavior which reinforces their self image, then self-concept internal motivation is evident. A leader who is motivated by self-concept internal is likely to value individual members and the unique characteristics and strengths that each brings (Barbuto & Scholl, 1999). The leader will inspire followers to provide unique contributions in accord with their personal goals as well as the goals of the leader. It was expected that self concept internal will be positively related to leader–member exchange.

Hypothesis 6: Leaders’ self-concept internal motivation will be positively related to leader–member exchange.

**Goal-internalization motivation.**—Goal-internalization motivation is derived from individuals’ need to believe in the purpose of activities before being motivated (Leonard, *et al.*, 1999). If individuals develop a sense of mission in work and have an internal value-based desire to see the mission succeed, then goal-internalization motivation occurs (Barbuto & Scholl, 1999). Such leaders inspired by goal-internalization motivation are likely to value those individuals who have a strong sense of their ideals and beliefs (Barbuto & Scholl, 1999). The leader will inspire followers to trust the goals of the organization and to work towards achieving these goals. Barbuto, *et al.* (2000) reported significant relations between leaders’ goal internalization and their use of transformational leadership behaviors. Thus, a relationship was expected between goal internalization and the quality of leader–member exchanges.

Hypothesis 7: Leaders’ goal-internalization motivation will be positively related to leader–member exchange.

**Intrinsic and extrinsic motivation.**—For the purpose of this study, the five sources of work motivation were further divided into two categories, intrinsic or internal (Deci, 1975; Staw, 1976), comprised of intrinsic process, self-concept-internal and goal internalization, and extrinsic/external (Deci, 1975; Staw, 1976), comprised of instrumental and self-concept external. Intrinsic or internal motivation embodies the person and emotions. It encompasses fun, trust, and self-worth, each of which were derived from internal influences. These qualities are similar to those needed for transformational behaviors (Burns, 1978; Bass, 1985, 1990). An extrinsic
or external combined process really derives from the surroundings of the person (Barbuto & Scholl, 1998). Instrumental work motivation and self-concept external motivation combine to form what is classically understood as extrinsic motivation. People influenced by an extrinsic or external process are motivated by prestige, rewards, and status, perhaps more suitable to transactional and charismatic leadership (Hater & Bass, 1988; Bass, 1990).

Hypothesis 8: Leaders’ intrinsic or internal motivation will be positively related to leader–member exchange.

Hypothesis 9: Leaders’ extrinsic or external motivation will be negatively related to leader–member exchange.

Method

Subjects

The participants were 80 elected community leaders and 388 raters in the midwestern USA. Leaders attended a leadership development workshop for elected officials and were members of a statewide professional organization which sponsored the event. Leaders served as treasurers in their respective counties and were elected by the county population. Their average age was 51 yr. Fifty percent had earned a bachelor’s degree, while 20% had earned a master’s degree or higher. Sixty-five percent of the leaders were women. Raters were colleagues or employees of the leaders and reported an average age of 46 yr. Of these raters, 42% had earned a bachelor’s degree, while fewer than 10% had earned a master’s degree or higher. Of these raters, 53% were women.

Tests

LMX–7 was the measure used for leader–member exchange. It is a 7-item Likert-type scale using anchors of 1: Strongly disagree and 5: Strongly agree. This measure has been used extensively in research and seems to be regarded as the gold standard measure (Gerstner & Day, 1997).

Sources of work motivation were measured using the Motivation Sources Inventory (Barbuto, 2004), a 30-item inventory of five subscales with six questions each; coefficients α ranged from .68 to .84 (Barbuto & Scholl, 1998). In addition to alpha, Revelle’s beta was computed in this study to estimate reliability. Beta represents the proportion of variance due to one common factor and is essentially the worst split-half reliability (Zinbarg, Revelle, Yovel, & Li, 2005). Therefore, Beta is a more conservative estimate than alpha. Since it has been argued that alpha is not a good measure of unidimensionality and that estimates such as Beta should be used when the measure is multidimensional (Revelle & Zinbarg, 2009), both alpha and beta are reported here. Motivation Sources Inventory (Barbuto, 2004) questions were formatted in Likert-type scales
ranging from 0: Completely disagree to 6: Completely agree. In this study, the five subscales—intrinsic process (“I prefer to do things that are fun”; $\alpha = .69, \beta = .17$), instrumental (“I like to be rewarded for extra responsibilities”; $\alpha = .77, \beta = .07$), self-concept external (“It is important that others appreciate the work I do”; $\alpha = .70, \beta = .05$), self-concept internal (“Decisions I make reflect my personal standards”; $\alpha = .70, \beta = .35$), and goal internalization (“I work hard for a company if I agree with its mission”; $\alpha = .77, \beta = .46$)—achieved generally acceptable reliability estimates.

Locus of control was measured using three items from Rotter’s measure (1966). The items included “I can control the things that happen in my life,” “I can make a difference in most situations,” and “The successes in my life result from my efforts.” The three questions exceeded the accepted baseline value of .70 for reliability estimates ($\alpha = .71, \beta = .64$). Questions were formatted in a 5-point Likert-type scale ranging from 0: Completely disagree to 4: Completely agree.

Mental Boundaries were measured using the Boundary Questionnaire (Hartmann, 1991), a 6-item subscale for organizational and interpersonal boundaries. Reliability estimates for mental boundaries fell below the required value ($\alpha = .68, \beta = .52$). Questions were formatted in a 5-point Likert-type scale ranging from 0: Completely disagree to 4: Completely agree.

**Procedure**

Data were collected from an intact group of elected officials as part of a full-day leadership-training seminar. Participants were members of an association which sponsors annual professional development programs for its members of which this research project was a part. Each participant was asked to distribute to all of their raters the raters’ version of the LMX-7. Raters completed their forms at the same time that leaders completed theirs. Test forms were coded in advance to protect the confidentiality of raters. Leaders’ names were kept on a separate coding sheet for later interpretation and feedback during the leadership-development training program. The research was approved by the institutional review board and informed consent was achieved for all participants.

All questionnaires were returned directly to the first author via the U.S. Postal Service. Participants and their raters were provided letters detailing their participation and rights, which included withdrawal at any time during the research. None of the participants requested to be removed from the study. Because preregistration was used for elected officials, the response rate was high, as 80 of the eligible 92 elected officials participated.

**Results**

Means, standard deviations, and zero-order correlations were calcu-
<table>
<thead>
<tr>
<th>Variable</th>
<th>M</th>
<th>SD</th>
<th>M</th>
<th>SD</th>
<th>Correlations</th>
</tr>
</thead>
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<tr>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>1. L-IP</td>
<td>18.8</td>
<td>4.6</td>
<td>.71</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. L-Instr</td>
<td>20.9</td>
<td>4.4</td>
<td>.34†</td>
<td>.78</td>
<td></td>
</tr>
<tr>
<td>3. L-SCE</td>
<td>24.0</td>
<td>3.7</td>
<td>.31†</td>
<td>.26†</td>
<td>.85</td>
</tr>
<tr>
<td>4. L-SCI</td>
<td>23.2</td>
<td>4.4</td>
<td>.36†</td>
<td>.42†</td>
<td>.55† .82</td>
</tr>
<tr>
<td>5. L-Goal</td>
<td>25.8</td>
<td>4.3</td>
<td>.14*</td>
<td>.30†</td>
<td>.60† .58† .73</td>
</tr>
<tr>
<td>6. L-Loc</td>
<td>8.6</td>
<td>1.8</td>
<td>–.11*</td>
<td>–.08*</td>
<td>.10* .18† .01</td>
</tr>
<tr>
<td>7. L-Bound</td>
<td>15.2</td>
<td>2.7</td>
<td>–.04</td>
<td>.03</td>
<td>–.01 .03 .16*</td>
</tr>
<tr>
<td>8. F-IP</td>
<td>19.3</td>
<td>5.9</td>
<td>.04</td>
<td>.01</td>
<td>.05 .01 .02</td>
</tr>
<tr>
<td>9. F-Instr</td>
<td>21.2</td>
<td>5.9</td>
<td>.05</td>
<td>.06</td>
<td>.05 .06 .03</td>
</tr>
<tr>
<td>10. F-SCE</td>
<td>23.8</td>
<td>4.9</td>
<td>.02</td>
<td>.07</td>
<td>.08  .05</td>
</tr>
<tr>
<td>11. F-SCI</td>
<td>24.1</td>
<td>5.2</td>
<td>–.02</td>
<td>–.01</td>
<td>.06  .03</td>
</tr>
<tr>
<td>12. F-Goal</td>
<td>25.5</td>
<td>5.2</td>
<td>–.02</td>
<td>–.06</td>
<td>.05</td>
</tr>
<tr>
<td>13. F-Loc</td>
<td>8.4</td>
<td>1.8</td>
<td>–.00</td>
<td>–.03</td>
<td>.03</td>
</tr>
<tr>
<td>14. F-Bound</td>
<td>15.4</td>
<td>3.1</td>
<td>–.04</td>
<td>–.13*</td>
<td>–.02</td>
</tr>
<tr>
<td>15. F-LMX</td>
<td>22.1</td>
<td>4.9</td>
<td>.03</td>
<td>.00</td>
<td>.08</td>
</tr>
</tbody>
</table>

Note.—Coefficients alpha reported on the diagonal. L-IP = Leaders’ Intrinsic Process; L-Instr = Leaders’ Instrumental; L-SCE = Leaders’ Self-concept External; L-SCI = Self-concept Internal; L-GOAL = Leaders’ Goal Internalization; L-Loc = Leaders’ Locus of Control; L-Bound = Leaders’ Boundaries of the Mind; F-IP = Followers’ Intrinsic Process; F-Instr = Followers’ Instrumental; F-SCE = Followers’ Self-concept External; F-SCI = Followers’ Self-concept Internal; F-GOAL = Followers’ Goal Internalization; F-Loc = Followers’ Locus of Control; F-Bound = Followers’ Boundaries of the Mind; F-LMX = Followers’ Ratings of their Leader–Member Exchange. *p < .05; †p < .003 [because of the number of analyses, a Bonferroni adjustment (15 × .05 = .003)].
TABLE 2
Hierarchical Regression to Identify Best Predictive Model of Leader–Member Exchange

<table>
<thead>
<tr>
<th>Model</th>
<th>R</th>
<th>R²</th>
<th>R² Adj</th>
<th>SE</th>
<th>R² Δ</th>
<th>F Δ</th>
<th>p</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Followers’ Locus of Control</td>
<td>.343</td>
<td>.118</td>
<td>.115</td>
<td>.649</td>
<td>.118</td>
<td>48.91</td>
<td>&lt; .0001</td>
</tr>
<tr>
<td>2. Leaders’ Self-concept Internal</td>
<td>.365</td>
<td>.133</td>
<td>.129</td>
<td>.644</td>
<td>.016</td>
<td>6.69</td>
<td>.01</td>
</tr>
</tbody>
</table>

Note.—Dependent Variable: Leader–Member Exchange (LMX). Variables not included: Leaders’ Locus of Control, Followers’ Goal Internalization. Model explains 13.3% of the variance in Leader–Member Exchange.

lated for all variables examined in this study (T₁). From this analysis several significant values were found. A very small but significant relation was found between leaders’ scores on internal locus of control and Leader–Member Exchange (r = .14, p < .01; H₁). A significant but very small relation was found between leaders’ process on self-concept internal motivation and leader–member exchange (r = .14, p < .01; H₆). A significant correlation was obtained between followers’ internal locus of control and Leader–Member Exchange quality (r = .36, p < .01; H₁₀a). There was also a weaker but significant correlation between followers’ Goal Internalization motivation and Leader–Member Exchange (r = .11, p < .05), not hypothesized. Note values account for little common variance, reaching statistical significance because N was very large.

No significant relations were found between leaders’ thin mental boundaries (H₂a and H₂b), intrinsic process motivation (H₃), instrumental motivation (H₄), self-concept external motivation (H₅), goal-internalization motivation (H₆), intrinsic-internal motivation (H₇), extrinsic or external motivation (H₈), or followers’ thin mental boundaries (H₁₀b), and leader–member exchange quality.

To test the best predictive model for the significant findings, the four variables were entered into a step-wise hierarchical model. The resulting model included followers’ scores on locus of control and leaders’ scores on self-concept internal motivation as independent variables and Leader–Member Exchange as the dependent variable (T₂). This model explained somewhat more than 13% of the common variance in the data (r = .37; r² = .13; r² adj = .13; SE = .64; F = .01). Although leaders’ locus of control and followers’ goal-internalization motivation shared statistically significant associations with Leader–Member Exchange, they did not contribute significantly beyond what was explained by followers’ locus of control and leaders’ self-concept internal motivation, but the overall amount left a substantial variance unaccounted for (83%).

Discussion

Summary of Findings

The most noteworthy findings of this study are the positive relations
between followers’ scores on locus of control and the quality of leader–
member exchange. This relation accounted for 12% of the common vari-
ance in the data, from which one may infer that followers who believe they
are in control of their destiny and outcomes will be more likely to develop
constructive and positive relationships with their direct supervisors. This
is noteworthy because the antecedents of leader–member exchange have
been tested with a variety of variables in the past and these results com-
pare favorably to other antecedents. Follower-centered variables were col-
lected but not hypothesized in this sample, as attributes of leaders were
the foci of the paper. The relationship between followers’ scores of locus of
control and the quality of leader–member exchange here may have been
anticipated by some prior work linking locus of control with leader–mem-
ber exchange (Gerstner & Day, 1997; Howell & Hall-Merenda, 1999). Also,
the exclusion of work motivation and boundaries of the mind in the total
variance accounted for indicates that the individuals’ motives did not sig-
nificantly affect the quality of the relations with direct supervisors.

A significant correlation (.36) between leaders’ scores on self-concept
internal motivation and leader–member exchange also is consistent with
reports in previous literature that leaders with high scores on self-concept
internal motivation tend to value individual members and their contribu-
tions. This would promote a positive leader–member exchange envi-
ronment (Barbuto & Scholl, 1999). A very small yet statistically significant
correlation was found between followers’ internal locus of control and
leader–member exchange quality. Although not hypothesized, a weak but
significant relation was found between followers’ goal-internalization mo-
tivation and leader–member exchange. This suggests followers with high
need to believe in the cause seem somewhat likely to develop strong and
trusting relations with their direct supervisors.

Limitations and Directions for Research

The interpretations of present results are limited by the sampling
procedures used in the study. However, all followers were asked to par-
ticipate in the study—as opposed to more typical sampling procedures
following which leaders hand select 4 to 6 raters to participate. Inviting
participation from all dyadic followers reduced some of the sampling bias
that would have been likely had leaders selected followers. Subsequent
studies should also sample from as wide a target population as possible
and remove leaders’ discretion in the process.

The results of this study explained only 13% of the total variance in
the data. Scholars are reminded that other variables not examined would
be expected to yield significant explanation of leader–member exchange.
A more comprehensive and inclusive predictive model may be useful to
ascertain the best predictors of leader–member exchange across all poten-
tial predictors. Testing other variables along with followers’ locus of control would be useful, since the relations with leader–member exchange accounted for 12%, and so 1% came from all other variables tested in this study. Single method variance seems likely to have inflated these relations.

These results provide some information about the antecedents of leader–member exchange. Researchers may consider other dispositional variables of both leaders and followers when testing the predictors of leader–member exchange.

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