EMOTIONAL INTELLIGENCE

IMAGINATION, COGNITION AND PERSONALITY, Vol. 9(3) 185-211, 1989-90

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This article presents a framework for emotional intelligence, a set of skills

hypothesized to contribute to the accurate appraisal and expression of emotion in oneself and in others, the effective regulation of emotion in self and others, and the use of feelings to motivate, plan, and achieve in one's life. We start by reviewing the debate about the adaptive versus maladaptive qualities of emotion. We then explore the literature on intelligence, and especially social intelligence, to examine the place of emotion in traditional intelligence conceptions. A framework for integrating the research on emotion-related skills is then described. Next, we review the components of emotional intelligence. To conclude the review, the role of emotional intelligence in mental health is discussed and avenues for further investigation are suggested.

Is "emotional intelligence" a contradiction in terms? One tradition in Western thought has viewed emotions as disorganized interruptions of mental activity, so potentially disruptive that they must be controlled. Writing in the first century

Is "emotional intelligence" a contradiction in terms? One tradition in western thought has viewed emotions as disorganized interruptions of mental activity, so potentially disruptive that they must be controlled. Writing in the first century B.C., Publilius Syrus stated, "Rule your feelings, lest your feelings rule you" [1]. More recently, in psychology, Young defined emotions as "acute disturbance[s] of the individual as a whole" [2, p. 263], and modern introductory texts described emotion as "a disorganized response, largely visceral, resulting from the lack of an effective adjustment" [3, p. 505]. In this view, pure emotion is seen as causing a "complete loss of cerebral control" and containing no "trace of conscious purpose" [4, p. 457-458]. In this vein, Woodworth suggested that a scale to measure IQ should contain tests demonstrating not being afraid, angry, grieved, or inquisitive over things that arouse the emotions of younger children [5].

may therefore be worthwhile to consider it from a functionalist perspective. expression of emotions seems to be a primary human motive [12-14], and it computers so as to prioritize and direct their processing [10, 11]. The full intelligence researchers have recently considered the value of adding emotion to emotion also see it as directing cognitive activities adaptively [8, 9]. Artificial which arouse, sustain, and direct activity" [6, p. 17]. Modern theories of suggested that emotions are primarily motivating forces; they are "processes characterizing emotion as chaotic, haphazard, and something to outgrow, Leeper adaptively focuses cognitive activities and subsequent action [6,7]. Rather than A second tradition views emotion as an organizing response because it

A DEFINITION OF EMOTIONS

N interaction into enriching experience. something that can potentially lead to a transformation of personal and social present article, we view the organized response of emotions as adaptive and as concept of mood in that emotions are shorter and generally more intense. In the for the individual. Emotions can be distinguished from the closely related either internal or external, that has a positively or negatively valenced meaning and experiential systems. Emotions typically arise in response to an event, psychological subsystems, including the physiological, cognitive, motivational We view emotions as organized responses, crossing the boundaries of many

to Other Intelligences Emotional Intelligence and Its Relationship

of the intelligence field. Intelligence researchers have often examined people's constructs such as emotional intelligence have played a part within the traditions contradiction in terms. Far from emotion being contradictory to intelligence, specific intelligences within such subareas as social behavior, and occasionally, motions [15]. At the article's outset, we asked whether emotional intelligence was a

Intelligence Defined

surposefully, to think rationally, and to deal effectively with his environment" o Descartes's definition that intelligence is the ability to judge true from false roposed by Terman and others (e.g., the ability to carry on abstract thinking). It hink of as intelligence, as opposed to more restrictive definitions, such as those [16, p. 347]. Perhaps the most often cited definition is Wechsler's statement anged from Pythagoras's none-too-helpful depiction of intelligence as "winds" 17]. Such a definition has the advantage of broadly encompassing what people hat "intelligence is the aggregate or global capacity of the individual to act Intelligence has been defined differently in different epochs. Definitions have

> intelligences [18], as well as those distinctions proposed by more contemporary the distinction among Abstract (Verbal), Mechanical (Visual/Spatial), and Social theorists such as Gardner [15] and Sternberg et al. [19]. includes the broad areas historically designated as involving intelligence, such as

a model of intelligence. This model holds that all mental abilities are interexample, we would consider Spearman's unifactorial, "g," view of intelligence it might reflect on the "g" model. What is more critical is that it fits within the and this should not reflect on its classification as a type of intelligence, although emotional intelligence may or may not correlate with other types of intelligence intelligence, however, are (generally) more restrictive organizations of the field according to the view described above, is a broad set of abilities. Models of to distinguish between intelligence per se and models of intelligence. Intelligence boundaries of conceptual definitions of intelligence, such as those provided, for intelligence, and yet may not necessarily conform to the "g" model. That is, correlated. It is not contradictory to say that emotional intelligence can be an that serve to describe interrelations among or causes of mental abilities. For example, by Wechsler. Intelligence versus models of intelligence — In the present context, it is critica

Social Intelligence

often defined in a more manipulative fashion. Weinstein noted that social optimally on the basis of that information. Social intelligence, however, was own and others' internal states, motives, and behaviors, and to act toward them oneself. The concept of social intelligence has a long history among intelligence defined initially as "the ability to understand and manage people" [20, p. 275] others' emotions that may guide conduct in a more prosocial fashion [24, 25] men and women, boys and girls-to act wisely in human relations" [18]. In researchers [21]. E. L. Thorndike originally distinguished social intelligence intelligence might include, by extension, the ability to understand and manage intelligence field almost since its inception. One type was social intelligence, manipulative connotations because they omit consideration of one's own and doing so . . ." [23, p. 73] . Traditional views of social intelligence may take on consistently and voluntarily to do the things he wants them to do and even like put it, "The essential thing is that the person ... is able to get others intelligence "boils down to the ability to manipulate the responses of others. .." essence, Thorndike defined social intelligence as the ability to perceive one's from other forms of intelligence, and defined it as "the ability to understand [22, p. 755]. Or, as the Bureau of Public Personnel Administration more crassly These social/intellectual skills might also be directed inward and so social The notion that there are different types of intelligence has been a part of the

sidewalk that was addressed and had a stamp on it is considered a measure of even morality [17]. verbal intelligence, and yet to answer the question requires social knowledge and intelligence test item that asks what you would do if you found a letter on the imperceptibly into verbal and visual/spatial intelligence. For instance, the problem was that social intelligence was defined so broadly so as to blend as abstract and mechanical intelligences was not so readily demonstrable. One The independence of social intelligence from other types of intelligence such

content than their own and taking a multidimensional view of social intelligence). suggested that with further investigation (relying on scales with less verbal but not that this demonstration would be impossible [20, p. 284]. In fact, they unitary trait corresponding to social intelligence remains to be demonstrated," be a viable construct. Thorndike and Stein concluded that "whether there is any careful reading of that article leaves one optimistic that social intelligence might of others [e.g., 21, 28] was an article of R. L. Thorndike and Stein [20]. Yet, a basis these conclusions were drawn. The sole basis for his statements and those approach is fruitless" [26; see, for example, 27]. Few had considered on what conclusions that "enough attempts were made . . . to indicate that this line of undefined and unmeasured" [26]. Most researchers accepted Cronbach's the construct might ultimately be measurable. "fifty years of intermittent investigation ... social intelligence remains By 1960, Cronbach had reached his well known conclusion that despite

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distinguished from general academic abilities. Factorial results indicated that a social intelligence component could be Form which measures attitudinal, goal directedness, and social goal variables [30]. relationship. Similarly, Ford developed the Social Competence Nomination were strangers posing together or actually involved in a dating or marital attempted to operationalize social intelligence [29]. For example, in one study mistakes, and displays interest in the world at large. Stemberg and Smith have such socially relevant attributes as: accepts others for what they are, admits describe an intelligent person [19]. Many of the characteristics elicited were they asked subjects to view photographs of couples and to judge whether they measurement. Sternberg, Conway, Ketron, and Bernstein asked lay people to There is at present a resurgence of interest in social intelligence and its

social behavior. It places the locus of individual differences in varied social and as dealing adaptively and effectively with the environment, is a core component similar vein, Epstein and Meier have argued that constructive thinking, defined exploring how high school students adapt to the transition to college [33]. In a personal schemata stored in memory. For instance, Cantor and her colleagues solving, according to their view, is a central personality process that underpins unifying construct for understanding personality [31, 32]. Social problem have focused on fitting individual personality styles into social situations by Recently, Cantor and Kihlstrom have proposed social intelligence as a

> of personality [34]. They believe that people who lead their lives successfully these conceptualizations of social intelligence exciting and useful. have, for example, learned the advantages of flexible thinking [35]. We find

Emotional Intelligence

discriminate among them and to use this information to guide one's thinking affective information, that this affective information must be processed (perhaps colleagues and constructive thinking defined by Epstein [36] are laden with and actions. We posit that life tasks such as those described by Cantor and her involves the ability to monitor one's own and others' feelings and emotions, to differently than the cognitive information), and that individuals may differ in view of social intelligence, which he refers to as the personal intelligences [15]. the skill with which they do so. Emotional intelligence is also a part of Gardner's we call emotional intelligence [15, p. 239]: aspect of the personal intelligence relates to feelings and is quite close to what personal intelligence) include knowledge about the self and about others. One Like social intelligence, the personal intelligences (divided into inter- and intra-We define emotional intelligence as the subset of social intelligence that

level, intrapersonal knowledge allows one to detect and to symbolize complex and highly differentiated sets of feelings . . . to attain a deep distinguish a feeling of pleasure from one of pain.... At its most advanced understanding and guiding one's behavior. In its most primitive form, the enmesh them in symbolic codes, to draw upon them as a means of discriminations among these feelings and, eventually, to label them, to range of affects or emotions: the capacity instantly to effect intrapersonal intelligence amounts to little more than the capacity to knowledge of . . . feeling life. The core capacity at work here is access to one's own feeling life-one's

of predicting their future behavior. As was the case with social intelligence, others' moods and temperaments and to enlist such knowledge into the service emotional intelligence is a subset of Gardner's personal intelligences. Emotional Interpersonal intelligence involves, among other things, the ability to monitor It focuses, rather, on the processes described specifically above, that is, the intelligence does not include the general sense of self and appraisal of others. and regulate behavior. recognition and use of one's own and others' emotional states to solve problems

CONCEPTUALIZATION AND SCOPE **EMOTIONAL INTELLIGENCE:**

psychology. This collection of studies has in common the examination of how dismembered and scattered over a diversity of journals, books, and subfields of There is an exciting body of research that, for lack of a theoretical concept, is

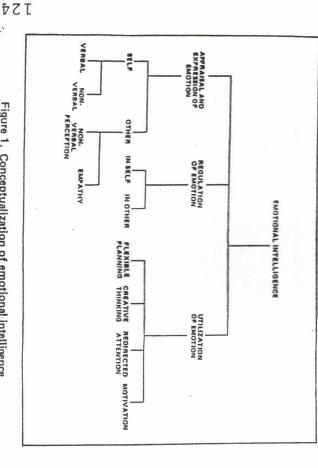


Figure 1. Conceptualization of emotional intelligence

solving problems. It is different from research on the interaction of cognition to personality. As long as this research remains scattered without a guiding memory or judgment per se, but on more general contributions of emotionality and affect, traditionally conceived [e.g., 37-41], because it concentrates not on people appraise and communicate emotion, and how they use that emotion in this research conceptually, its contribution to psychology will be readily grasped framework, its contribution to psychology will be minimal. But by integrating

will call emotional intelligence. underlie them and the means by which they operationalize portions of what we are not interested in the scales per se, we are interested in the constructs that current review will integrate a number of instances of scale development, such as scale development and measurement. For this reason, some sections of the descriptive qualities of the work have been developed through the agency of those concerning alexithymia, emotional expression, and empathy. Although we Much of the research to be studied is descriptive in nature. And the

a) appraising and expressing emotions in the self and others, b) regulating processes involving emotional information. The mental processes include not yet been appreciated: that there is a set of conceptually related mental We hope to reveal the implications of this scattered set of findings that have

> emotions. Second, such differences may be rooted in underlying skills that car in processing styles and abilities. Such individual differences are important for are common to everyone, the present model also addresses individual differences outline of these components is provided in Figure 1. Although these processes emotion in the self and others, and c) using emotions in adaptive ways. An be learned and thereby contribute to peoples' mental health recognizing that people differ in the capacity to understand and express two reasons. First, there has been a century-long tradition among clinicians

operationalizations are described, and pertinent experimental results are In the next portion of the article, each of these processes is discussed in turn,

APPRAISAL AND EXPRESSION OF EMOTION

Emotion in the Self

allows for the accurate appraisal and expression of feelings, and stable laws may determine various expressions of emotion. govern them [e.g., 42-47]. These emotional appraisals, in turn, in part laden information first enters the perceptual system. Emotional intelligence The processes underlying emotional intelligence are initiated when affect

and much of the following research is reported in the psychiatric literature. individual differences in the styles or ability to appraise and express emotions. Calm; 48, 49]. There is a considerably smaller psychological literature on expressions of the content of emotion [e.g., Pleasant-Unpleasant and Arousalexaminations of expression have concentrated upon the dimensions underlying coherent propositions on the basis of that introspection. Recent psychological them. This social learning interacts with the ability to introspect and form language. Learning about emotions depends in part upon speaking clearly about Verbal - One medium through which emotions are appraised and expressed is

at the corpus callosum or to a disconnection between limbic systems and physiological explanations for alexithymia have been proposed, among them unable to appraise and then verbally express their emotions [50]. Certain interesting, associated operationalizations do not yet bear on such physiological higher cortical activities [51-53]. Although such theorizing has been expressiveness itself. theories. Operationalizations have, however, been provided for emotional that it may be due to blocking of impulses from the right to left hemisphere The term alexithymia was introduced to refer to psychiatric patients who are

example, patients were asked to react to situations described verbally such as a patients who were asked to respond in an open-ended fashion [54]. For Hospital Psychosomatic Questlonnaire, which presented brief scenarios to The first scale to measure emotional expressiveness was the Beth Israel

were recorded. This protocol is then scored for emotion-communication. A normative response to the above item might be "I'd feel terror." But an alexithymic might reply, "like I want to get out of the way." For several years, the Beth Israel Hospital Psychosomatic Questionnaire served as the instrument of choice for researchers in this area [e.g., 55]. Its subjective scoring procedure, however, resulted in low reliability [56], and so the Schalling-Sifneos Personality Scale was introduced as an alternative to the Beth Israel, albeit with little improvement in reliability [57]. A number of projective measures of alexithymia appeared as well but were limited by the projective procedure itself [58-60]. Finally, a method of scoring alexithymic tendencies in natural language samples using the Gottschalk-Gleser [61] system was developed by TenHouten et al. [51,52].

A group administrable and objectively scored scale in this area was clearly indicated [62,63], and an alexithymia scale based on the Minnesota Multiphasic Personality Inventory was developed by Kleiger and Kinsman [64]. The construction of this measure was flawed, however, due to the use of small non-representative samples, capitalization on chance during item selection, and arbitrary criteria for excluding otherwise adequate items. These procedures can be assumed to have yielded a non-optimal test.

Three new scales that address emotional expression have been developed to measure more specific attitudes about emotions. These are the State and Trait Meta-Mood Scales (SMMS [48], TMMS [65]) and the Toronto Alexithymia Scale [66,67]. Such attitudes are important in themselves, but in so far as they indirectly predict actual emotional reactions, they are probably not best classed with a scale such as the Beth Israel.

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Another problem with most discussions of alexithymia is that they concentrate on negative emotions and ignore positive feelings, mixed emotions, or neutral states. Thus, it is unclear whether alexithymla pertains to egothreatening feelings, or to feelings of all kinds. Additionally, might not some individuals exhibit hyper-emotionallity in neutral situations? Some of these problems were addressed in a study by Mayer, Salovey, Gomberg-Kaufman, and Blainey [68]. Participants reacted to thirty-two emotional and non-emotional situations by checking three of twelve pre-classified alternatives that represented their response to each situation. Patterns of responses fell along three broad dimensions of feeling/thought, defensive/openness, and coping/troubled. The thinking pole of the first dimension and the defensive pole of the second dimension both appear close to psychiatric conceptions of alexithymia. The fact that two dimensions might describe alexithymia suggests that the "alexithymic" classification may need to be reconceptualized.

Nonverbal — One reason the appraisal and expression of emotion have been overlooked as mental abilities may be that they often take place on a nonverbal level, and such nonverbal communication did not fit the format of early

measures of mental abilities. Many investigators, however, have explored nonverbal appraisals and expressions of emotion [e.g., 69] since Darwin's now classic study of facial expression [70]. Much emotional communication occurs through nonverbal channels. And, individual differences in the clarity of the perception of these signals is illustrated in its expression, sometimes termed "nonverbal sending accuracy" [71].

Two scales, the Affect Expression Rating Scale and the Affective Communication Test, have been developed for this purpose [72-74]. The first of these is used to assess the emotional expressiveness of children, as rated by, for example, their teachers; but a self-report adult version of the scale has also been developed [75]. The Affective Communication Test involves self-report items, such as "I show that I like someone by hugging or touching them."

Together, these and similar scales have been used to relate emotional expressiveness to several dispositional variables. Consistent associations have been found between emotional communication, empathy [76], and depression (which yields a reverse relationship [77, 78]). Such expressive ability is less clearly related to non-affective domains. Mixed or contradictory results have been obtained when predicting from emotional communication to intelligence [79], extraversion [80, 81, but see 76, 79], and field dependence [82-84].

Summary — We have suggested that appraising and expressing emotions accurately is a part of emotional intelligence. This is the case because those who are more accurate can more quickly perceive and respond to their own emotions and better express those emotions to others. Such emotionally intelligent individuals can also respond more appropriately to their own feelings because of the accuracy with which they perceive them. These skills are emotionally intelligent because they require the processing of emotional information from within the organism, and because it is clear that some level of minimal competence at these skills is necessary for adequate social functioning.

Emotion in Others

Nonverbal perception of emotion — From an evolutionary standpoint, it was important that people be able to perceive emotions not only in themselves, but also in those around them. Such perceptual abilities insure smoother interpersonal cooperation by, for example, permitting the monitoring of displeasure. There are several indications that individual differences exist in the interpretation of emotions through facial expressions.

Various measures of individual differences in nonverbal receiving of others' emotion have been developed [cf. 71]. The Affect Sensitivity Test presents videotaped interactions between pairs of individuals; subjects respond by indicating the emotions and thoughts that targets are expressing [85, 86]. The Communication of Affect Receiving Ability Test (CARAT) consists of a videotape of people watching scenic, unpleasant, unusual, and sexual slides [87]

Subjects must guess what slide the target is observing by studying the target's facial expressions. The Affect Sensitivity Test has moderate internal consistency and a good test-retest reliability, although different versions of the test have had surprisingly low intercorrelations [86]. The Profile of Nonverbal Sensitivity (PONS) has one of the best item samples of emotional expression, including face, body, and face and body combined [88]. Another scale oriented to a more general class of stimuli combines faces, colors, and designs, and finds they define a unifactorial construct of emotional receiving [89]. Several other scales or procedures exist including, for example, measures of the recognition of tachistoscopically presented facial expressions [90, 91].

Differences in nonverbal perceptions of emotion have been associated with various criteria. CARAT scores are higher among artists than scientists, and they correlate with Rotter's interpersonal trust scale [92]. More accurate perceptions may relate to effective mental-health counseling [85]. A number of researchers have found that women are generally better in recognizing emotions in facial expressions than are men [93-98], with the exception of anger perception [98]. The unifactorial faces, colors, and designs scale correlates moderately with empathy [90]. On the whole, scales examining intercorrelations among nonverbal perception measures are diverse, and unsurprisingly for that reason, have yielded diverse results. The different operationalizations suggest they are measuring different underlying skills [99, 100]. Buck concluded that either these instruments were, "sensitive to different aspects of nonverbal receiving ability, or, non-verbal receiving ability is not a unidimensional construct..."

upportive a social structure will surround a person. motionally intelligent friends, relatives, and coworkers, the more empathic and veave a warm fabric of interpersonal relations. Clearly, the greater number of н emotionally intelligent fashion should have sufficient social competence to Empathy is also a motivator for altruistic behavior [105] . People who behave in mportant determinant of whether the advice is perceived as good [104]. satisfaction, and lower stress. For example, the empathy of an advice giver is an 103]. When people relate positively to one another, they experience greater life friends, and neighbors are critical contributors to his or her well being [102, As social support researchers have made clear in recent years, a person's relatives, Empathy may be a central characteristic of emotionally intelligent behavior. believed an active striving to understand other people and to empathize with comprehend another's feelings and to re-experience them oneself. Rogers and expression is that they appear related to empathy, the ability to them is a priceless gift as well as a prerequisite for helping another grow [101]. Empathy - A particularly exciting communality among emotional appraisal

Empathy researchers, in turn, have noted its dependence on subsidiary bilities similar to appraising and expressing emotion [cf. 106, 107]: to inderstand another person's point of view [108, 109], to identify accurately

another's emotions [71], to experience the same or other appropriate emotion in response to them [110-112], and finally, to communicate and/or act on this internal experience [113, 114].

group;" "I like to watch people open presents") [112]. Other empathy scales emotional experiences (e.g., "It makes me sad to see a lonely stranger in a distant others' feelings, and being moved by others' positive and negative others and includes such subscales as emotional contagion, appreciation of Meharabian and Epstein more specifically measures emotional responsiveness to validity for empathy, as more narrowly considered here. A scale developed by criterion, including humor, imaginative play, and insight into motives [109] clear that broad attributes other than empathy were considered as part of the have been reported, but are less widely used [e.g., 108, 115]. intelligence in its generality, the scale may for this reason lack discriminant Although we are sympathetic to this approach, which is similar to emotional Q-sort items that were intended to reflect empathic and unempathic individuals 112]. Hogan's scale was constructed according to judges' ratings of California Two scales examining empathy are Hogan's and Mehrabian and Epstein's [109 The complexity of the scale development techniques reported in Hogan makes it Much of the work on empathy has treated it as a dispositional variable [27]

Developmental perspectives on empathy suggest that appraisal of one's own feelings and those of others are highly related, and that, in fact, one may not exist without the other. For example, according to Hoffman's perspective, contributors to empathy include: a) primary circular reactions in which an infant cries in response to other infants crying and b) classical empathic conditioning in which one views another's emotional reaction (through facial expressions or body posture) to the same situation one is in oneself, thereby learning situational determinants of an affect [25]. It is clear that while these may provide information about others' feelings, they also enable the child to learn about what one's feelings in response to a situation should be. Thus, empathy scales may measure not only one's ability to feel toward others, but general access to one's own feelings as well.

Summary — We have included the skillful recognizance of others' emotional reactions and empathic responses to them as a component of emotional intelligence. These skills enable individuals to gauge accurately the affective responses in others and to choose socially adaptive behaviors in response. Such individuals should be perceived as genuine and warm by others, while individuals lacking these skills should appear oblivious and boorish.

REGULATION OF EMOTION

People experience mood on both a direct and a reflective level. In their reflective experience, individuals have access to knowledge regarding their own and others' moods. This experience, in part, represents a willingness and ability

to monitor, evaluate, and regulate emotions. Previously, we discussed the skills needed to appraise and express emotions. We now turn to processes that undergird differences in the ability to regulate one's own emotions. Later, we will discuss how similar processes might apply to attempts to regulate, even manipulate, the affective reactions of other people. Much of the research in this domain concerns moods rather than emotions. Moods, although less intense and generally longer lasting than emotions, should be just as effectively regulated and managed by individuals with emotionally intelligent skills.

Regulation of Emotion in the Self

There are a variety of experiences that one has about one's moods; these meta-experiences of mood can be conceptualized as the result of a regulatory system that monitors, evaluates, and sometimes acts to change mood [48]. Although many aspects of mood regulation occur automatically (it is, for instance, unnecessary to make a conscious decision to become sad in the presence of tragedy), some meta-experiences of mood are conscious and open to inquiry. For example, two scales designed expressly to measure mood regulation are the State and Trait Meta-Mood Scales (SMMS) (TMMS) [48, 65]. As the names suggest, one scale measures momentary regulation, the other, longer-term regulatory style.

The co-occurrence of mood with meta-experiences of mood (e.g., which moods are typical, which are not; which moods are understandable, which are not) over many situations provides data for individuals to build theories about the situations that bring about moods. For instance, if one experiences a pleasant, acceptable mood when dancing, then the cause of the mood (dancing) could be sought after in the future so as to bring about the mood again. In this way, it would serve as a foundation upon which rules could be constructed that would themselves direct behavior to bring about moods.

Additionally, one can regulate mood by choosing one's associates. Associating with other people whose successes are not threatening to us generally results in positive affects like pride, although associating with people whose successes are in areas considered important to one's sense of self can lead to negative affective states like envy [116, 117]. Individuals try to maintain a positive and avoid negative moods by seeking information that helps maintain a positive view of themselves. Tesser has termed this motive "self-evaluation maintenance" [118, 119]. Further, individuals may act helpfully to others as a way of terminating negative moods, the so-called "negative state relief" view of altruistic behavior [120, 121]. And, it makes greater evolutionary sense that the individuals of a species, rather than becoming happy by directly deciding to do so, do so instead by regulating behavior, as for example by engaging in altruistic acts [42, 48, 122].

Another quite different way that meta-mood experience may affect mood-change is by positively augmenting a person's overall internal experience. A negative mood that is evaluated as unacceptable and long-lasting is devastating; but were the evaluations reversed so as to view the mood as under control and

soon-to-change, the overall feelings would be far less destructive of one's equanimity. Such countervailing evaluations may assist individuals to persevere in times of negative moods, and thereby enter new situations that have the potential to improve their future moods [48].

potential to improve their future moods [48]. generally motivated to maintain, even prolong, pleasant moods but attempt to memory encoding and recall was generally stronger for positive than negative counteract automatic associations produced by negative moods [125, 126], and assumes that individuals attempt to maximize pleasurable experiences and attenuate the experience of unpleasant ones [123]. These processes have been mood states. To explain this asymmetry, Isen has suggested that individuals are regulation of mood stemmed from observations that the impact of mood on individuals seek to maximize time spent in pleasant affective states and to and, in fact, a long-standing tradition within psychology has been that and trying to remember your favorite things" [126]. The assumption thus far, gloomy thought ... [by] counting your blessings, looking for the silver lining to "take charge of their minds' propensity to jump from gloomy thought to terminate aversive ones. They seem to use conscious (controlled) mechanisms to labeled "mood maintenance" and "mood repair" [124]. This motivational view oriented to a pleasure seeking goal. be sought (and then retained in memory) as compared with unpleasant ones [41, psychological perspectives predict that pleasant experiences are more likely to terminate negative emotions. Researchers working from a variety of 127]. Individuals' interactions with others and their private imagery are often Mood may be modified directly, as well. The earliest evidence for the self-

However, people's actions are more complex than this. Individuals may be motivated to seek emotional experiences of any kind and to try to prolong these emotional experiences [14, 128]. We attend plays, read fiction, listen to symphonies even when these experiences lead to sorrow. Sorrow, though, may not be unpleasant; tragedy is considered by some the highest form of art [129]. Aesthetic appreciation may involve special qualities of emotional perception and awareness possibly related to the internal experience of emotional intelligence [130]. These aesthetic experiences allow us to practice feeling negative affect (with little consequence), perhaps so as to become more motivated to seek pleasant experiences and to avoid negative ones that do matter. We must empathize with the down-trodden in order to feel positively about our own advantages, and the experience of profound sadness, at times, can be uplifting. Perhaps the positive affect that accompanies aesthetically generated sorrow is rooted in contrast: one must experience sorrow, at least temporarily, in order to feel joy [cf. 131].

Regulation of Emotion in Others

Emotional intelligence includes the ability to regulate and alter the affective reactions of others. For example, an emotionally intelligent orator can elicit

strong reactions in an audience. Similarly, an emotionally intelligent job dress in creating a favorable impression [cf. 132]. candidate understands the contribution of behaviors such as promptness and

corporations and other institutions [135]. when not to attend to the behaviors of others [cf. 134]. Such management themselves and their activities to others in order to guide and control the techniques have recently been expanded by Hochschild, who has investigated responses to private problems. In addition, the skilled impression manager knows "creating a scene," or having the "presence of mind" to suppress emotional Impression Management" described the important consequences of deliberately impressions formed of them [133]. His influential chapter on "The Arts of the commercialization of emotional impression management by large Goffman eloquently described the ways in which individuals present

has developed a theory of charisma, in which it is viewed as an emotional regulation of followers by leaders [138]. and Gordis demonstrated how advice givers sometimes compromise honesty to to others so as to enhance their interpersonal relations [136]. Similarly, Mayer investigated the MUM effect, in which people suppress negative communications regulation through ingratiation [132]. Rosen, Johnson, Johnson, and Tesser provide more interpersonal support when the two conflict [137]. Wasielewski regulation have been examined in greater detail. Jones studied emotional Since Goffman, the actual processes underlying such interpersonal mood

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motivate others charismatically toward a worthwhile end. On the negative side, enhance their own and others' moods and even manage emotions so as to process and do so to meet particular goals. On the positive side, they may mood states. Most people regulate emotion in themselves and others [48]. emotional intelligence because it may lead to more adaptive and reinforcing those whose skills are channelled antisocially may create manipulative scenes or Emotionally intelligent individuals, however, should be especially adept at this lead others sociopathically to nefarious ends. Summary - We have included the regulation of emotion in the construct of

UTILIZING EMOTIONAL INTELLIGENCE

of the components and strategies involved in problem solving [see 10 and 139 cognitive material is better integrated and diverse ideas are seen as more to solve problems. Moods and emotions subtly but systematically influence some related [139]. Third, emotion provides interrupts for complex systems, future plans. Second, positive emotion may alter memory organization so that for reviews]. First, emotion swings may facilitate the generation of multiple "popping" them out of a given level of processing and focusing them on more Individuals also differ in their ability to harness their own emotions in order

> attention on the self [140-142]. Finally, emotions and moods may be used to motivate and assist performance at complex intellectual tasks [33, 143, 144]. pressing needs. Moods such as anxiety and depression, for example, may focus

Flexible Planning

breaking set when thinking about the future and consider a wider variety of negative events as less likely to occur and that the reverse holds true for people in the frequency and amplitude of their shifts in predominant affect [145, 146] take advantage of future opportunities [10]. possible outcomes. As a consequence, they may be more likely to generate a in unpleasant moods [147-152]. Mood swings may assist such people in those events. People in good moods perceive positive events as more likely and their estimates of the likelihood of future events depending upon the valence of Those with the strongest mood swings will experience concomitant changes in larger number of future plans for themselves and thereby be better prepared to One central aspect of personality is the mood swing wherein individuals difference

Creative Thinking

information may have positive impact on creative problem solving [154]. while they experience positive mood [153]. This clarity in categorizing organization and use of information in memory. For example, individuals may find it easier to categorize features of problems as being related or unrelated Mood may also assist problem solving by virtue of its impact on the

experiencing positive mood are more likely to give especially unusual or creative categorization tests have commonly been used as the dependent variables in this remember information [156]. more creative responses to Duncker's candle task [154]. It seems that subjects research. For example, Isen et al. demonstrated that positive mood can facilitate likely to discover category organizing principles and use them to integrate and first associates to neutral cues [155]. Moreover, happy individuals may be more Standard creativity tasks such as the remote associates task and cognitive

Mood Redirected Attention

processes to refocus attention on the most important stimuli in their 9]. In this fashion, individuals learn to capitalize on the capacity of emotional personal relations through the pain that emerges from her marital situation [7be directed away from an ongoing problem into a new one of greater immediate powerful emotions occur. Thus, when people attend to their feelings, they may from trivial work-related problems and toward understanding of her own interimportance. The salesperson who is undergoing a divorce may be directed away The third principle states that attention is directed to new problems when

attention, and allocate attentional resources accordingly. can help individuals to reprioritize the internal and external demands on their environment. Rather than merely disrupting ongoing cognitive activities, affect

Motivating Emotions

and others [35]. experiences that lead to better outcomes and greater rewards for themselves situations (such as tests and impending performances) to motivate them to example, some individuals can channel the anxiety created by evaluative Finally, individuals with positive attitudes toward life construct interpersonal thus persist in the face of obstacles and aversive experiences [152, 157-159]. People may use good moods to increase their confidence in their capabilities and imagine negative outcomes as a method of motivating performance [33, 144]. prepare more thoroughly and attain more exacting standards [143]. Others may Finally, moods may be used to motivate persistence at challenging tasks. For

Summary

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others. For example, such individuals are more likely to ask not how much they of problems people identify and the way they frame them will probably be more at an advantage for solving problems adaptively. And it is for this reason that approach will lead to behavior that is considerate and respectful of the internal integrate emotional considerations when choosing among alternatives. Such an Having framed a problem, individuals with such skills may be more creative and will earn in a career, but rather whether they will be happy in such a career. related to internal emotional experience than will be the problems addressed by such skills are included within the construct of emotional intelligence. The sorts experience of themselves and others. flexible in arriving at possible alternatives to problems. They are also more apt to When people approach life tasks with emotional intelligence, they should be

CONCLUSIONS AND IMPLICATIONS

relating emotional intelligence to the individual will be considered as we conclude definition of a healthy, self-actualized individual? These and other considerations and express their own emotions, recognize emotions in others, regulate affect, and use moods and emotions to motivate adaptive behaviors. Is this just another People who have developed skills related to emotional intelligence understand

Emotional Intelligence The Utility of a Concept of

unintegrated. But do the abilities represented by these literatures reflect a intelligence is of heuristic value in drawing together literatures that are often left Throughout this article, we have presupposed that the construct of emotional

> Such models have a useful status whether underlying components form a single component parts (e.g., attention, memory, metacognition) not intercorrelated would not be considered any less useful were individual differences in the component skills need not intercorrelate. For example, models of cognition coherent construct? For the emotional intelligence framework to be useful, the the findings of well designed experiments and correlational studies. What is it may be that emotional skills are intercorrelated, but such a conclusion awaits factor or are a set of independent but conceptually related processes. Of course adequate, intelligent functioning. We believe that each of our topic areas satisfie processing and b) are necessary for a minimum level of competence and important is that the skills share the fact that they a) involve emotional

Emotional Intelligence and Adjustment

so contribute to well being. Thus, the emotionally intelligent person is often a often lead to the effective regulation of affect within themselves and others, and label them, and when appropriate, communicate them. Such awareness will They are open to positive and negative aspects of internal experience, are able to health. These individuals are aware of their own feelings and those of others. can be thought of as having attained at least a limited form of positive mental emotion in the path toward growth. Emotional intelligence involves selfpleasure to be around and leaves others feeling better. The emotionally intelligen emotional toughness [160]. Thus, emotionally intelligent individuals accurately which may make one feel better in the long run, may require sacrifice and restraint is often necessary in the service of a greater objective. Helping others, regulation appreciative of the fact that temporarily hurt feelings or emotional person, however, does not mindlessly seek pleasure, but rather attends to them as they proceed toward important goals. perceive their emotions and use integrated, sophisticated approaches to regulate Emotional intelligence and health - The person with emotional intelligence

emotional deficits exist as well. Sociopaths, who are impoverished in their regulate their own emotions may become slaves to them. Individuals who can't may arise from deficits in emotional intelligence. People who don't learn to experience lived by individuals who become depressed, even suicidal. A society them emotionally. Such planning deficits may lead to lives of unrewarded recognize emotion in themselves and are therefore unable to plan lives that fulfi purposes [161]. A far more common ailment may involve people who cannot experience of emotion, seem to over-regulate mood in others for their own as cloddish or oafish and ultimately be ostracized. Other peculiarities of recognize emotions in others, or who make others feel badly, may be perceived of such individuals could create a culture in which people are insufficiently rewarded and so regulate their emotions in alienating ways [162]. Deficits in emotional intelligence - In contrast, many problems in adjustmen

Future Research in Emotional Intelligence

Just as emotional intelligence may provide a framework for organizing personality, it may also suggest an outline for personality researchers who study emotion. Investigators may wish to examine emotions in the self, the appraisal of others' emotions, the ways in which emotion is regulated, or the adaptive uses of emotion. But, in addition, others may choose a research strategy that involves the identification of emotionally intelligent individuals through the use of laboratory tasks or conventional scales. They might also examine the acquisition of emotionally intelligent skills and interventions to promote them. We would hope as well that researchers in this area might examine the role played by emotional intelligence in understanding other complex social processes such as the development of friendships and other close relationships. In the end, by recognizing the contribution of emotional intelligence to a healthy personality, and how to foster it, we may come to recognize advantageous qualities or needed changes in social institutions and cultural practices.

ACKNOWLEDGMENTS

We gratefully acknowledge the helpful feedback on earlier drafts of this manuscript provided by Mahzarin R. Banaji, Seymour Epstein, Stephanie Fishkin, Paula M. Niedenthal, Ann M. O'Leary, Jerome L. Singer, and Robert J. Sternberg. Bob Sternberg also provided valuable assistance in guiding us to the modern literature on social intelligence. John D. Mayer especially thanks his mother, Edna Mayer, who drew attention to many of the issues that later contributed to the concept of emotional intelligence. We would both like to thank Chloé Drake for her painstaking assistance in preparing this manuscript.

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The preparation of this manuscript was supported in part by NIH Biomedical Research Support Grant S07 RR07015, NIH grant CA42101, NCHS Contract 200-88-7001, and by a grant from the Yale Social Science Faculty Research Fund to Peter Salovey as well as a New York State/Union of University Professionals New Faculty Development Award and a SUNY-Purchase President's Award to John D. Mayer.

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