

# 11

## Affect and the Self

CONSTANTINE SEDIKIDES, TIM WILDSCHUT, JAMIE ARNDT, and CLAY ROUTLEDGE

**I**magine you are walking through your neighborhood on a breezy spring afternoon and you see a child running excitedly after a ball tossed from a friend. You begin to think about your own childhood and perhaps bask in the glow of the bygone days of frivolous play and exuberance. What are the cognitive abilities that enable, and the psychological functions served by, such nostalgic reflection? More broadly, what is the relationship between affective states and self-processes? In entertaining such questions, one may be surprised to learn that contemporary social psychological discourse offers few answers. The purpose of the present chapter is to provide a broad overview of the relationship between affective states and the self, and then illustrate the interplay of affect and self-processes through a special kind of self-related affective state, nostalgia.

We will first review literature on the relation between mood states and self-focused attention. Second, we will discuss the relation between mood states and the valence of self-views. Third, we will briefly couch the link between self and affect in terms of self-related emotions and note those that have been the primary subject of empirical scrutiny: shame, guilt, and embarrassment. Finally and most importantly, we will discuss a relatively neglected self-related emotion, nostalgia, to illustrate the interdependence between self and affect. We will also discuss the similarities and differences between nostalgia and other self-related emotions.

### THE INTERPLAY BETWEEN SELF AND AFFECT: MOOD AND SELF-FOCUSED ATTENTION, MOOD AND SELF-DESCRIPTION, AND SELF-RELATED EMOTIONS

#### *Mood States and Self-Focused Attention*

A persistent focus of the literature on self and affect has been the interplay between mood states and self-focused attention. One of the initial observations of this connection emerged from classic work on self-awareness theory (Duval & Wicklund, 1972). According to theory and research from this perspective,

increased self-focus instigates regulatory processes, often heightening awareness of discrepancies between self and evaluative standards, and thus engendering feelings of negative affect (e.g., Scheier & Carver, 1977; see Fejfar & Hoyle, 2000 for a review). A considerable literature has also been guided by the reciprocal question: "What mood states lead to which kind of attentional focus?" (Sedikides & Green, 2000). The mood states of sadness and happiness attracted the bulk of empirical efforts. Further, attentional focus was conceptualized as falling on a bipolar continuum: directed either internally (i.e., to the self) or externally (e.g., to other persons).

In line with appraisal theories of emotion (Smith, David, & Kirby, this volume; Smith & Kirby, 2001), sadness was hypothesized to induce self-focused attention. Sadness is elicited by a setback or loss, is accompanied by the perception that the unfortunate event is rather uncontrollable and inevitable, and is associated with or leads to inaction, resignation, passivity, and withdrawal. Sadness instigates an avoidance orientation toward the outside world and an inclination to turn inward and clarify the implications of the unfortunate event for one's goals and behavioral options. On the other hand, happiness is characterized by an expansive, exploratory, and affiliative orientation. Happiness is linked with stimulation seeking and the facilitation of adaptive or approach behaviors. As such, happiness was hypothesized to induce other-focused attention.

The empirical findings were consistent with these hypotheses. Compared to neutral mood, sadness induces self-focused attention (Sedikides, 1992a), whereas happiness induces external-focused attention (Green, Sedikides, Saltzberg, Wood, & Forzano, 2003). Moreover, the causal relation between sadness and self-focused attention is not reciprocal: Sadness directly elicits self-focused attention, but the reverse pattern does not hold. Instead, the effects of self-focused attention on sadness are moderated by self-concept valence. Self-focused attention induces sadness only among individuals with chronically negative self-views (Sedikides, 1992b).

More recently, however, the literature moved beyond sadness and happiness by taking into account another, orthogonal, affective dimension: orientation. In particular, (negative or positive) mood states can be either reflective or social. Examples of reflective mood states are sadness and contentment, whereas examples of social mood states are anger and happiness. Reflective states should elicit stronger self-focused attention than social states, a hypothesis that was empirically validated (Green & Sedikides, 1999). As we will discuss, one of the possibly unique features of nostalgia is that it is both a reflective and social emotion.

### *Mood States and Self-Concept Valence*

Sad and happy mood states also have distinct consequences for self-concept valence. An early review (Sedikides, 1992c) captured these consequences with the mood-congruency principle: Sad mood increases the negativity of self-conceptions, whereas happy mood increases the positivity of self-conceptions. A comprehensive model on the relation between mood and social cognition, however, the affect infusion model (AIM; Forgas, 1995, 2002, this volume), offered theoretical insights that qualified the mood-congruency principle.

According to the AIM, affect is infused differentially into information processing strategies. In some strategies, such as the direct-access strategy (when processing is based on the cognitive retrieval of knowledge structures) and the motivated-processing strategy (when processing is goal-driven), affect infusion is low. In other strategies, such as heuristic processing (requiring an online judgment) or substantive processing (requiring an open information search and the transformation or creation of cognitive structures), affect infusion is high. The postulates of the AIM have clear implications for the influence of mood states on the self-concept. Affect will infuse the self-system and change the self-views in a mood-congruent manner only when these self-views are relatively uncertain or loosely formed. However, affect will have no influence on self-views that are crystallized and well-formed. The former (i.e., peripheral self-conceptions) are computed via an online judgment, whereas the latter (i.e., central self-conceptions) require the retrieval of a stored judgment. Thus, heuristic processing is involved in judgments of peripheral self-views, whereas direct-access processing is involved in judgments of central self-views.

The empirical evidence was consistent with these hypotheses. The mood-congruity effect was obtained for judgments pertaining to peripheral but not central self-conceptions (Sedikides, 1995). Notably, support for the AIM has been obtained in regards to other domains, such as individual differences (Sedikides & Green, 2001). For example, mood-congruity effects on self-conceptions are present for low, but not high, self-esteem persons. This is attributed to the fact that the self-views of low self-esteem persons are held with less certainty compared to the self-views of high self-esteem persons (Campbell, Trapnell, Heine, Katz, Lavallee, & Lehman, 1996).

The mood-congruity effect is also qualified by the temporal dimension: Initial mood-congruent influences on self-views are reversed by subsequent mood-incongruent influences. In particular, although immediately following sad-mood induction self-descriptions become more negative, over time this pattern is spontaneously reversed, with self-descriptions becoming increasingly positive (Forgas & Ciarrochi, 2002, Exp. 3; Sedikides, 1994). These results indicate the activation of mood-management or mood-repair processes (Bless & Fiedler, this volume; Erber & Markunas, this volume; Forgas, in press).

### *Self-Related Emotions*

The relation between self and affect becomes more intricate when self-related emotions are taken into consideration. The self-related emotions that have received the lion's share in the literature are shame, guilt, and embarrassment (Keltner & Beer, 2005; Tangney, 2002).

Self-related emotions are instigated by self-evaluation or self-reflection. Individuals feel shameful when they perceive the failure to meet an important internal standard (i.e., goal or rule) as indicative of a deep and all-encompassing personality defect or character flaw. Individuals also feel guilty when they violate an important internal standard, but the focus is on the specific transgression and its consequences for self and other. Finally, individuals feel embarrassed when they engage in relatively minor infractions of social conventions in a public setting

or merely when they become the public target of attention (e.g., "Happy Birthday" sung for them).

Shame, guilt, and embarrassment differ in terms of how painful they are, how they are regulated, and how they are expressed. Shame is more painful than guilt, which is more painful than embarrassment (Tangney, 2003). Furthermore, shame is linked with anger and aggression (which are attempts to protect the self) and may be more strongly tied to situations that focus attention internally (Arndt & Goldenberg, 2004), whereas guilt is linked with empathy. Both guilt and embarrassment, however, are linked with reparative action (e.g., apology). Moreover, shame and embarrassment have distinct nonverbal displays, whereas guilt does not. In particular, shame is expressed with coordinated gaze and downward head movement, whereas embarrassment is expressed through gaze aversion, smile control, a non-Duchenne smile, downward head movement, and, on some occasions, face touching (Keltner, 1995).

## THE INTERPLAY BETWEEN SELF AND AFFECT: NOSTALGIA

The literature on self-related emotions, while generating important insights, has yet to consider the emotional consequences of peoples' concurrent capacity to reflect on the past. In particular, the capacity for self-focus and also the capacity for temporal thought (i.e., the ability to project oneself into the past, present, and future) may enable people to reflect on their past and draw from it emotions such as nostalgia. We will begin with a historical synopsis and proceed with a discussion of the various facets of the nostalgic experience, highlighting the psychological landscape and functional significance of the emotion. Our discussion will be informed by the scarce literature on nostalgia and our own preliminary findings.

### *A Historical Overview of Nostalgia*

The term "nostalgia" was coined by the Swiss physician Johannes Hofer (1688/1934), although references to its meaning date back to Hippocrates, Caesar, and the Bible. Nostalgia is a compound term, derived from the Greek words *nostos* (*return*) and *algos* (*pain*). Thus, nostalgia connotes the psychological suffering induced by the yearning to return to one's place of origin.

In its conceptual and empirical trajectory, the term did not always carry the same meaning. Hofer (1688/1934) focused on Swiss mercenaries fighting away from home on behalf of European rulers and described the mercenaries as suffering from despondency, weeping, anorexia, and suicidal ideation. Hofer characterized nostalgia (or homesickness) "a cerebral disease of essentially demonic cause" (p. 387) which was caused by "the quite continuous vibration of animal spirits through those fibers of the middle brain in which impressed traces of ideas of the Fatherland still cling" (p. 384). Some decades later, the German-Swiss physician J. J. Scheuchzer maintained in 1732 that nostalgia was due to "a sharp differential in atmospheric pressure causing excessive body pressurization, which

in turn drove blood from the heart to the brain, thereby producing the observed affliction of sentiment" (cited in Davis, 1979, p. 2). To make matters worse, it was believed that nostalgia was restricted to the Swiss, and military physicians offered the unremitting clanging of cowbells in the Alps as the cause of nostalgia. The noise, it was said, inflicted damage to the eardrum and brain, hence the emotional lability and behavioral symptoms (Davis, 1979). In the 18th and 19th centuries, however, it became clear that nostalgia was not just a Swiss curiosity, as soldiers fighting in the French armies and the American Civil War manifested similar symptoms (Rosen, 1975). Nevertheless, the definition of nostalgia as a neurological disease persisted.

By the end of the 19th and the beginning of the 20th century, nostalgia was regarded as a psychiatric disorder (Batcho, 1998; McCann, 1941). Symptoms included anxiety, sadness, fatigue, loss of appetite, and insomnia (Havlena & Holak, 1991). Indeed, following the psychodynamic tradition, nostalgia was consigned to the realm of disorders until the middle of the 20th century (Sohn, 1983). Nostalgia was labeled as arising from a subconscious yearning to return to one's fetal state, as a "mentally repressive compulsive disorder" (Fodor, 1950, p. 25), as a "monomaniacal obsessive mental state causing intense unhappiness" (Fodor, 1950, p. 25), and as "immigrant psychosis" (Frost, 1938, p. 801). By the late 1970s and early 1980s, nostalgia was considered as a form of depression, "a regressive manifestation closely related to the issue of loss, grief, incomplete mourning, and, finally, depression" (Castelnuovo-Tedesco, 1980, p. 100; see also Kaplan, 1987). Furthermore, nostalgia was equated with homesickness and confined to four populations: immigrants, first-year boarding or university students, soldiers, and seamen (Cox, 1988; Jackson, 1986).

More recently, the constructs of nostalgia and homesickness have gone their separate ways. Homesickness refers to psychological difficulties that accompany life transitions such as to boarding school or university (Brewin, Furnham, & Howes, 1989; Fisher, 1989; Stroebe, van Vliet, Hewstone, & Willis, 2002; Van Tilburg, Vingerhoets, & van Heck, 1996). Nostalgia, on the other hand, is considered an experience with a wider frame of reference, often associated with the words "warm, old times, childhood, and yearning" (Davis, 1979). We conceptualize nostalgia as yearning for aspects of one's past (e.g., events, persons, places), and see it as an emotional experience that is relevant to people of all ages and is present throughout the life course (Sedikides, Wildschut, & Baden, 2004). Below, we further clarify our conceptualization of nostalgia while discussing the available theoretical and empirical work as well as our own preliminary findings.

### *Structure of Nostalgia*

We will consider three structural features of nostalgia: its triggers, its objects, and the role of self.

**Triggers of Nostalgia** What triggers the nostalgic experience? Although the experience of nostalgia critically depends on the capacity for self-directed and temporal attention, theorists have speculated that triggers (i.e., stimuli associated

with one's past) can be either social (e.g., friends, family reunions, disco nights) or nonsocial (e.g., music, scents, possessions) (Havlena & Holak, 1991; Holak & Havlena, 1998; Holbrook, 1993, 1994). Davis (1979) suggested that nostalgia occurs in the context of "present fears, discontents, anxieties, and uncertainties" (p. 34), whereas Cully, LaVoie, and Gfeller (2001) emphasized dejected mood as a trigger of nostalgia.

We (Wildschut, Sedikides, Arndt, & Routledge, in press) asked participants to provide detailed descriptions of the circumstances that trigger nostalgia. Contrary to some previous speculation but consistent with Davis (1979) and Cully et al. (2001), we found that the most common nostalgia trigger is negative mood. One participant, for instance, wrote: "I think of nostalgic experiences when I am sad as they often make me feel better." Another participant wrote: "I think people would turn to nostalgia in unhappy, sad or lonely situations to make themselves smile." Among the negative mood states mentioned, loneliness was by far the most common, as is illustrated by the following quote: "If I ever feel lonely or sad I tend to think of my friends or family who I haven't seen in a long time." Thus, nostalgia can in certain contexts be seen as a mood-management strategy. Consistently with prior speculation, though, other common triggers included sensory inputs and social interactions. Relevant to the idea that sensory inputs can trigger nostalgia, one participant remarked that "the strongest triggers are smells and music" and another referred to "pictures, smells, sounds, even tastes" as triggers of nostalgia. Relevant to the idea that social interaction can trigger nostalgia, many commented on how, in the words of one astute participant, nostalgia can be triggered by "being in the company of the people concerned."

**Objects of Nostalgia** What are the objects of the nostalgic experience? In our research (Wildschut et al., in press), the most common objects of nostalgia were close others (e.g., friends, family members). Consider, for instance, the mother who wrote of her son's birth: "I remember exactly how he looked and smelt the first time I held him in my arms." The second most common objects of nostalgia were momentous events (e.g., anniversaries, holiday gatherings). Tellingly, momentous events often involved the presence of close others and coders occasionally found it difficult to separate the two categories. Other frequently reported objects were places or settings.

**Role of Self: Nostalgia as a Self-Related Emotion** We conceptualized nostalgia as a self-related emotion. We considered the self as the protagonist of the nostalgic encounter, although we reasoned that the self operates in social context (Sedikides et al., 2004). This proposal was supported by our empirical findings (Wildschut et al., in press). In the vast majority of nostalgic accounts, the self figured in an important role alongside close others.

### *Is Nostalgia a Positive Emotion?*

Some researchers have classified nostalgia as positive emotion. According to Davis (1979), nostalgia is a "positively toned evocation of a lived past" (p. 18), a view

echoed by Kaplan (1987) in his definition of nostalgia as a "warm feeling about the past" (p. 465). Other researchers have also argued that nostalgia is associated with positive affect (e.g., Batcho, 1995, 1998; Chaplin, 2000; Gabriel, 1993; Holak & Havlena, 1998). An alternative camp of researchers, however, has classified nostalgia as a negative emotion. According to Ortony, Clore, and Collins (1988), nostalgia is a loss or distress emotion, as it involves sadness or mourning for one's past. The view of nostalgia as a loss emotion is shared by Best and Nelson (1985), Hertz (1990), Holbrook (1993, 1994), and Peters (1985). Finally, a third camp of researchers cast nostalgia as an ambivalent emotion. Werman (1977) defined nostalgia as "a joy tinged with sadness" (p. 393), whereas both Fodor (1950) and Socarides (1977) proposed that nostalgia entails some degree of psychological pain. Finally, Johnson-Laird and Oatley (1989) emphasized the ambivalent nature of nostalgia, arguing that it involves both happiness and mild discontent. The ambivalence is the outcome of a contrast between a satisfying past and a grim present.

In our view, nostalgia is a predominantly positive emotion, albeit not without bittersweet elements (Sedikides et al., 2004). A study by Holak and Havlena (1998) provided preliminary support for this view. Participants' nostalgic accounts (as judged by coders) were characterized more by positive (e.g., warmth, joy, gratitude) than negative (e.g., sadness, irritation, fear) emotions. More to the point, our own research (Wildschut et al., in press) has obtained evidence that nostalgia is principally a positive emotion. Participants' nostalgic accounts (as judged by independent coders) reflect more positive than negative affect, and participants report that nostalgia has more desirable than undesirable features. In addition, participants report that they experience more positive than negative affect following written descriptions of nostalgic events.

Another way to address the issue of whether nostalgia is a positive or negative emotion is to examine its narrative sequence. McAdams and his colleagues (McAdams, Diamond, de St. Aubin, & Mansfield, 1997; McAdams, Reynolds, Lewis, Patten, & Bowman, 2001) distinguished between two narrative sequences of life stories. In the first, *redemption*, the individual progresses from a disadvantaged to a victorious position, with accompanying positive feelings (e.g., contentment, happiness). In the second, *contamination*, the individual progresses from a position of strength to one of weakness, with accompanying negative feelings (e.g., sadness, depression). In our research (Wildschut et al., in press), we found that nostalgic accounts more often follow a redemption than a contamination sequence. The high frequency of redemption sequences in nostalgic narratives reinforces our view that nostalgia is a predominantly positive emotion. These findings further support the notion that nostalgia is more likely to be emotionally positive in nature.

### *Do Self-Related Emotions such as Nostalgia Involve a Contrast Between Past and Present?*

Davis (1979) set forth an interesting hypothesis: Nostalgia is an emotional reaction to discontinuity in one's life. Johnson-Laird and Oatley (1989) echoed the

discontinuity hypothesis when they argued that nostalgia involves a contrast between one's past and present. According to Davis, sources of discontinuity include death of a loved one, health deterioration, relationship break-up, and occupational crises (e.g., lay-offs). In addition, discontinuity has emotional consequences, such as "fears, discontents, anxieties, or uncertainties" (Davis, 1979, p. 34).

A more concrete and testable form of the discontinuity hypothesis is that individuals who experience discontinuity in their lives (i.e., deteriorating life circumstances) will report higher degrees of nostalgia (i.e., will rate the past as more favorable) compared to those who experience continuity. Best and Nelson (1985) tested this proposition by analyzing data from four surveys which involved US national samples and were carried out in 1968, 1974, 1976, and 1980. In these surveys, participants responded to statements such as "You are as happy now as you were when you were younger," "People had it better in the old days," "I am as happy as when I was younger," "These are the best years of my life," and "In spite of what some people say, the lot of the average man is getting worse, not better." Responses to these statements were combined to form an index of nostalgia. Support for the discontinuity hypothesis was equivocal. On the one hand, deteriorating circumstances (e.g., health problems, divorce, death of a loved one) were related with increased nostalgia. On the other hand, occupational mobility, geographic mobility, and work interruption were not associated with nostalgia. The equivocal support for the discontinuity hypothesis, however, may be due to conceptual and data-analytic problems with this study. For example, the survey items (Best & Nelson, 1985) were rather poor indicators of nostalgia, and the data were underanalyzed.

Batcho's (1995) research is also relevant to the discontinuity hypothesis. She assessed nostalgia in a two-part survey. In the first part, respondents evaluated (as good or bad) the world at present, 20 years into the future, and in the past. In the second part of the survey, participants completed the *Nostalgia Inventory*, indicating the degree to which they missed each of 20 items (toys, your house, friends, the way society was, not knowing sad or evil things, not having to worry, etc.) from their youth. In the first part of the survey, support for the discontinuity hypothesis was weak. On the one hand, evaluations of the world across past, future, and present did not differ by age or gender. On the other hand, the overall nostalgia score, although uncorrelated with judgments of the present or the future, was correlated with judgments of the past. Also, when the upper and lower quartile of the respondents were examined, high (compared to low) nostalgics rated the world when they were younger as better. In general, nostalgia was not linked with substantial dissatisfaction with the present or anxieties about the future, but it was associated with the view that the past was better. In the second part of the survey, the discontinuity hypothesis was discredited. Age main effects were significant for 14 of the 20 items of the nostalgia inventory: friends, family, school, house, music, heroes/heroines, feelings, having someone to depend on, not knowing sad or evil things, holidays, toys, pets, not having to worry, and the way people were. However, on all but two (family, music) of these items, younger adults were more nostalgic than older ones. Because it seems reasonable that older adults would have experienced more discontinuity than younger adults, these results do not seem to follow from the discontinuity hypothesis.



In a recent study, we (Wildschut, Sedikides, Arndt, Routledge, & Hodgson, 2006) tested the discontinuity hypothesis in a sample of 38 adult participants (mean age = 48 years). Discontinuity was measured using a revised version of the Social Readjustment Rating Scale (SRRS; Holmes & Rahe, 1967). This version of the scale asked participants to indicate for each of 14 disrupting life events (e.g., death of a close family member, change in living conditions, change in financial situation, divorce) whether they had experienced it over the past 2 years. Nostalgia was measured using Batcho's nostalgia inventory. Consistent with the discontinuity hypothesis, results revealed a significant positive correlation between the number of disrupting life events experienced and nostalgia.

In conclusion, there is some support, albeit preliminary, for the discontinuity hypothesis. This support comes from correlational studies. We believe that experimental tests have greater potential to evaluate rigorously the hypothesis. Conceptually, the prior articulations of the hypothesis imply that nostalgia is simply a byproduct of discontinuity. Looked at from a different vantage point, however, one may construe discontinuity as a form of threat that should in turn evoke *more* nostalgia as people try to marshal positive coping resources. Does threat in the form of negative feedback (Sedikides, Campbell, Reeder, & Elliot, 1998) or the awareness of inevitable mortality (mortality salience; e.g., Arndt, Greenberg, Solomon, Pyszczynski, & Simon, 1997), for example, induce corresponding changes in the level of nostalgia? Given what we believe to be the functional significance of the emotion, there are reasons to think that it might. We are in the process of carrying out such tests.

### *What Are the Functions of Self-Related Emotions such as Nostalgia?*

We propose that nostalgia serves four important psychological functions. First, nostalgia serves as a repository of positive affect. Second, nostalgia maintains and enhances self-positivity. Third, nostalgia fosters affiliation. Finally, nostalgia carries existential meaning, serving as a reservoir of memories and experiences that is helpful for coping with existential threat. We will review these functions in more detail, complementing them with our preliminary findings, and also highlight future directions for empirical study. In our research (Wildschut et al., in press), participants brought to mind and wrote about a nostalgic experience or, in the control condition, an ordinary event that occurred in the past week. Subsequently, they completed a battery of scales assessing affect, aspects of the self-concept, and feelings of affiliation.

**The Positive Affectivity Function of Nostalgia** We proposed and found (Wildschut et al., in press) that nostalgia predominantly gives rise to positive affect. Kaplan (1987) speculated that the joy that nostalgia induces gives rise to "an expansive state of mind" (p. 465). In a similar vein, Fredrickson (2001) argued that positive emotions increase resourcefulness, as they broaden thought-action repertoires. Indeed, positive emotions offset the impact of not only negative

emotions (Fredrickson, Tugade, Waugh, & Larkin, 2003) but also negative feedback about the self (Aspinwall, 1998; Trope, Igou, & Burke, this volume; Trope & Pomerantz, 1998). We found (Wildschut et al., 2005) that participants who brought to mind or wrote about a nostalgic experience reported more positive affect than participants in the control condition, who brought to mind or wrote about an ordinary experience. Similarly, in a recent study we found that perceiving the past as positive is associated with increased nostalgia proneness (Routledge, Arndt, Sedikides, & Wildschut, 2006). Given that nostalgia is associated with positive affect and positive affect can assist people in dealing with negative emotions and stressors such as negative feedback (Trope et al., this volume), future research should further examine the potential for nostalgia to be employed to combat negative affect.

**The Self-Positivity Function of Nostalgia** Individuals are motivated to protect, maintain, and enhance the positivity of the self-concept (Sedikides & Gregg, 2003; Sedikides & Strube, 1997). Self-protection and self-enhancement mechanisms are typically activated when feedback is perceived as self-threatening (Baumeister, 1998; Sedikides, Green, & Pinter, 2004; see also Baumeister et al., this volume). We propose that nostalgia constitutes an important mechanism through which individuals ward off threat and restore the positivity of the self-concept (Sedikides et al., 2004) or self-esteem (Gabriel, 1993; Kaplan, 1987). The effectiveness of nostalgia as a self-protection mechanism may be due to its potential to affirm the self (Steele, 1988) by rendering accessible other desirable aspects of one's personality. That is, by resorting through nostalgia to an idealized past, one may affirm oneself (Kleiner, 1977). We found that (Wildschut et al., in press) participants who brought to mind or wrote about a nostalgic experience reported higher self-esteem than participants in the control condition. This suggests that nostalgia can be a resource for responding to self-related threats (e.g., derogation of outgroups, Fein & Spencer, 1997), providing an outlet for socially positive self-affirmation.

**The Affiliation Function of Nostalgia** Another important function of nostalgia is the strengthening of social connectedness and belongingness. Davis (1979) regarded nostalgia as a deeply social emotion, whereas Hertz (1990) noted that, in the nostalgic experience, "...the mind is 'peopled'" (p. 195). Symbolic connections with close others are re-established (Batcho, 1998; Cavanaugh, 1989; Kaplan, 1987; Mills & Coleman, 1994), and these close others come to be momentarily part of one's present. Such meaningful connections are particularly relevant during life transitions (e.g., graduation, relocation, new employment), when individuals are likely to feel socially isolated. Nostalgia, then, contributes to a sense of safety and secures attachment (Mikulincer, Florian, & Hirschberger, 2003). Participants who brought to mind and wrote about a nostalgic experience subsequently evidenced a more secure adult attachment style than participants in the control condition (Wildschut et al., in press). Future research should further explore the potential for nostalgia to help people cope with situations that foster feelings of isolation or disconnection from close others. Indeed, for deployed soldiers separated from family,

some of the most desired luxuries are objects that remind them of friends and family at home (armytimes.com).

**The Existential Function of Nostalgia** We are all too frequently confronted with the ephemeral nature of life and this fragility represents a major hurdle that people must cross in order to function with relative psychological equanimity. According to terror management theory (Pyszczynski, Greenberg, Solomon, Arndt, & Schimel, 2004; Solomon, Greenberg, & Pyszczynski, 1991), such anxieties stem, in part, from our awareness of inevitable mortality and are mitigated by maintaining a two-part anxiety buffer that consists of faith in a cultural worldview (shared beliefs about the nature of reality that imbue life with meaning) and self-esteem (the sense that one is personally fulfilling the standards of one's worldview). Recently, Mikulincer et al. (2003) have argued that secure attachment to others represents another fundamental means of buffering existential anxiety.

Self-related emotions such as nostalgia can bolster each of the psychological mechanisms by which people manage existential anxiety. Nostalgia may serve to enhance the positivity of the self-concept and may enhance connectedness to others, weaving the self into a meaningful social fabric. Nostalgia can also contribute an overall sense of enduring meaning to one's life. The passing of time can be threatening, for as time passes the certainty of one's inevitable demise draws closer (Routledge & Arndt, 2005). Nostalgia, however, provides an emotional mechanism by which the passing of time can be perceived as meaningful as one builds a positive warehouse of memories of bygone days, and by reinforcing the value of cultural traditions. This is achieved by revelling in past celebrations of cultural rituals, such as Thanksgiving dinners, school fares, or parades, or by collecting movie, sports, or war memorabilia. Through such practices, one restores the belief of living a purposeful life in a meaningful cultural context (Simon, Arndt, Greenberg, Pyszczynski, & Solomon, 1998).

We examined how nostalgia moderates the effects of mortality salience. For example, in one study we (Routledge et al., 2006) found that after being reminded of one's mortality (relative to an aversive control topic), the more one tends to perceive the past as positive, the more he or she perceives life as meaningful. In another study, we further found that after being reminded of mortality (relative to an aversive control topic), people who are more prone to nostalgia actually show less activation of death-related cognition. Both studies thus converge to suggest that nostalgia can provide an important resource for buffering existential threat.

In short, self-related emotions such as nostalgia may serve as an important resource for managing existential anxieties. That is, nostalgic engagement may affirm the self, and self-affirmation (e.g., writing about one's important values) reduces existential angst (Schmeichel & Martens, 2005). Given that terror management often has unfortunate consequences such as fostering intolerance, prejudice, and aggression (Greenberg, Solomon, & Pyszczynski, 1997), an important direction for future research is to uncover more benevolent means of maintaining such views and nostalgia is emerging as a prime candidate to this end.

### *Additional Issues Surrounding Nostalgia*

We have argued that nostalgia is a universal and predominantly positive self-related emotion that involves reliving momentous events or bygone relationships with significant others. Nostalgia is typically triggered by negative mood but also sensory inputs and social interactions. Importantly, nostalgia fulfills four psychological functions: positive affectivity, self-positivity, affiliation, and buffering against existential terror.

Many interesting issues await empirical investigation. In the first section of this chapter, we covered the interplay between self and affect, and noted the connection between mood and self-focused attention; and the role of mood congruency and affect infusion in self-views. How does nostalgia interface with these ideas? Nostalgia is self-reflective, yet social. Thus, how might nostalgia affect or be affected by an internal focus of attention? It is positive yet at times tinged with bittersweet elements. Thus, what are the congruent or infused moods elicited?

Further, one might examine whether nostalgia proneness is associated with psychological well-being. Bryant, Smart, and King (2005) found that reminiscing about positive memories increases reports of happiness over a period of a week. As a predominantly positive emotion, nostalgia may also contribute to a broader thought-action repertoire (Fredrickson et al., 2003), fostering creative thinking and being associated with markers of well-being such as ability to grow, plan, and achieve (Bless & Fiedler, this volume; Huppert, this volume; Taylor, Lerner, Sherman, Sage, & McDowell, 2003a).

In addition, nostalgia may be associated with physical well-being (Danner, Snowdon, & Friesen, 2001). Positive emotionality in the handwritten diaries of elderly Catholic nuns, written when they were young adults, predicted survival rates approximately 60 years later. In another study (Emmons & McCullough, 2003), positive emotions (e.g., counting one's blessings, gratitude) predicted physical well-being. Finally, self-positivity—a crucial function of nostalgia—was found to be associated with healthy biological profiles (Taylor, Lerner, Sherman, Sage, & McDowell, 2003b).

Our discussion of functions was not meant to be exhaustive. For example, Davis (1979; see also Rosen, 1975) proposed that, in nostalgic reverie, the individual constructs identity continuity via such processes as “an appreciative stance toward former selves; excluding unpleasant memories; reinterpreting marginal, fugitive, and eccentric facets of earlier selves in a positive light; and establishing benchmarks in one's biography” (Davis, 1979, pp. 35–46). Brown and Humphreys (2002) and Milligan (2003) have also offered speculations on the continuity function of nostalgia. In addition, Davis (1979) proposed that nostalgia serves an accuracy function, as it is an authentic experience. In particular, “nostalgia purports to represent the true places, events, and moods of our past, even if our powers of historical reflection may cause us to question whether “it was indeed that way” (p. 47). We call for empirical verification of these continuity and accuracy functions of nostalgia.

What kind of person is more prone to nostalgia and susceptible to its consequences? Are neurotics more prone to nostalgic engagement when in negative

than in positive mood? Research showing that high (compared to low) neurotics were faster in making evaluative judgments when in negative than in positive mood (Tamir & Robinson, 2004) would be consistent with this reasoning. Also, are high, compared to low, neurotics more likely to benefit from nostalgic reverie in terms of positive affectivity, self-positivity, affiliation, or existential soothing? Research showing that high neurotics are more vulnerable to stress in situations construed as threatening (Schneider, 2004) is in line with this reasoning. That is, nostalgic reverie may have more "emotional room" to operate among high than low neurotics. Alternatively, to the extent that neuroticism is marked by affective instability (Larsen & Ketelaar, 1991; Spangler & Palrecha, 2004) and belies a more ambivalent investment in systems of meaning (Arndt & Solomon, 2003), high neurotics may not be able to marshal mainly positive memories in the nostalgic reverie, and this may undermine the palliative effects of the emotion.

Another individual difference variable that is worth empirical attention is narcissism. High (compared to low) narcissists are self-centered, interpersonally manipulative, and unforgiving, while scoring low on agreeableness, empathy, and affiliation (Juola Exline, Baumeister, Bushman, Campbell, & Finkel, 2004; Sedikides, Rudich, Gregg, Kumashiro, & Rusbult, 2004). Given that nostalgia is a deeply social emotion, we would expect nostalgia proneness to be lower among narcissists than non-narcissists. Furthermore, we would expect that nostalgia would be more likely to serve a self-positivity than affiliation function for high narcissists, but serve an affiliation rather than a self-positivity function for low narcissists.

## CONCLUDING REMARKS

We began by reviewing several literatures that have a bearing on the interplay between self and affect. These literatures concerned the relation between mood and self-focused attention, the relation between mood and self-concept valence, and the cluster of self-related emotions. In the second half of the chapter we concentrated on a neglected self-related emotion, nostalgia, that exemplifies the complexity of the self-affect interface. We reviewed the literature, introduced a reconceptualization of the construct, and presented new findings from our laboratories.

Nostalgia shares important similarities with shame, guilt, and embarrassment. It implicates strongly the self, has a motivational component (e.g., goal clarification), and likely has behavioral consequences as well (e.g., phoning a friend or family member after feeling nostalgic about them). Also, like guilt and embarrassment (but unlike shame), nostalgia is focused on a particular social episode and is relevant to a specific facet of one's self, although, like shame, nostalgia may spill over and overcome the person as whole.

At the same time, nostalgia differs from shame, guilt, and embarrassment in important ways. Nostalgia does not necessarily involve a moral element, although internal standards may be indirectly activated by bringing to mind a close other. Nostalgia is not a painful emotion; to the contrary, it is a positive emotion.

Nostalgia instigates affiliative, not reparative, action. Finally, unlike shame and embarrassment (but like guilt), nostalgia may not be associated with a distinct nonverbal display.

In conclusion, the emotion of nostalgia has long been neglected in the psychological literature. This is unfortunate: Nostalgia is universal, prevalent, and serves a host of critical psychological functions. We hope that future research will redress this empirical imbalance and give this fundamental human experience its proper place in the pantheon of emotions.

## ACKNOWLEDGMENT

Constantine Sedikides and Tim Wildschut have been supported by British Academy Grant No. LRG-33566.

## REFERENCES

- Arndt, J., & Goldenberg, J. L. (2004). From self-awareness to shame-proneness: Evidence of a causal sequence among women. *Self and Identity*, 3, 27–37.
- Arndt, J., Greenberg, J., Solomon, S., Pyszczynski, T., & Simon, L. (1997). Suppression, accessibility of death-related thoughts, and cultural world-view defense: Exploring the psychodynamics of terror management. *Journal of Personality and Social Psychology*, 73, 5–18.
- Arndt, J., & Solomon, S. (2003). The control of death and the death of control: The effects of mortality salience, neuroticism, and worldview threat on the desire for control. *Journal of Research in Personality*, 37, 1–22.
- Aspinwall, L. G. (1998). Rethinking the role of positive affect in self-regulation. *Motivation and Emotion*, 22, 1–32.
- Batcho, K. I. (1995). Nostalgia: A psychological perspective. *Perceptual and Motor Skills*, 80, 131–143.
- Batcho, K. I. (1998). Personal nostalgia, world view, memory, and emotionality. *Perceptual and Motor Skills*, 87, 411–432.
- Baumeister, R. F. (1998). The self. In D. T. Gilbert, S. T. Fiske, & G. Lindzey (Eds.), *Handbook of social psychology* (4th ed., Vol. 1, pp. 680–740). New York: McGraw-Hill.
- Best, J., & Nelson, E. E. (1985). Nostalgia and discontinuity: A test of the Davis hypothesis. *Sociology and Social Research*, 69, 221–233.
- Brewin, C. R., Furnham, A., & Howes, M. (1989). Demographic and psychological determinants of homesickness. *British Journal of Psychology*, 80, 467–477.
- Brown, A. D., & Humphreys, M. (2002). Nostalgia and the narrativization of identity: A Turkish case study. *British Journal of Management*, 13, 141–159.
- Bryant, F. B., Smart, C. M., & King, S. P. (2005). Using the past to enhance the present: Boosting happiness through positive reminiscence. *Journal of Happiness Studies*, 6, 227–260.
- Campbell, J. D., Trapnell, P. D., Heine, S. J., Katz, I. M., Lavallee, L. F., & Lehman, D. B. (1996). Self-concept clarity: Measurement, personality correlates, and cultural boundaries. *Journal of Personality and Social Psychology*, 70, 141–156.
- Castelnuovo-Tedesco, P. (1980). Reminiscence and nostalgia: The pleasure and pain of remembering. In S. I. Greenspan & G. H. Pollack (Eds.), *The course of life: Psychoanalytic contributions toward understanding personality development*. Vol.

III: *Adulthood and the aging process* (pp. 104–118). Washington, DC: US Government Printing Office.

- Cavanaugh, J. C. (1989). I have this feeling about everyday memory aging .... *Educational Gerontology*, 15, 597–605.
- Chaplin, S. (2000). *The psychology of time and death*. Ashland, OH: Sonnet Press.
- Cox, J. L. (1988). The overseas student: Expatriate, sojourner or settler? *Acta Psychiatrica Scandinavica*, 78, 179–184.
- Cully, J. A., LaVoie, D., & Gfeller, J. D. (2001). Reminiscence, personality, and psychological functioning in older adults. *The Gerontologist*, 41, 89–95.
- Danner, D. D., Snowdon, D. A., & Friesen, W. V. (2001). Positive emotions in early life and longevity: Finding from the nun study. *Journal of Personality and Social Psychology*, 80, 804–813.
- Davis, F. (1979). *Yearning for yesterday: A sociology of nostalgia*. New York: Free Press.
- Duval, S., & Wicklund, R. A. (1972). *A theory of objective self-awareness*. New York: Academic Press.
- Emmons, R. A., & McCullough, M. E. (2003). Counting blessings versus burdens: An experimental investigation of gratitude and subjective well-being in daily life. *Journal of Personality and Social Psychology*, 84, 377–389.
- Fein, S., & Spencer, S. J. (1997). Prejudice and self-image maintenance: Affirming the self through derogating others. *Journal of Personality and Social Psychology*, 73, 31–44.
- Fejfar, M. C., & Hoyle, R. H. (2000). Effect of private self-awareness on negative affect and self-referent attribution: A quantitative review. *Personality and Social Psychology Review*, 4, 132–142.
- Fisher, S. (1989). *Homesickness, cognition, and health*. Hove, UK: Lawrence Erlbaum Associates Ltd.
- Fodor, N. (1950). Varieties of nostalgia. *Psychoanalytic Review*, 37, 25–38.
- Forgas, J. P. (1995). Mood and judgment: The Affect Infusion Model (AIM). *Psychological Bulletin*, 117, 39–66.
- Forgas, J. P. (2002). Feeling and doing: Affective influences on interpersonal behavior. *Psychological Inquiry*, 13, 1–28.
- Forgas, J. P. (in press). Mood management: A dual-process theory of affect regulation. *Psychological Inquiry*.
- Forgas, J. P., & Ciarrochi, J. V. (2002). On managing moods: Evidence for the role of homeostatic cognitive strategies in affect regulation. *Personality and Social Psychology Bulletin*, 28, 336–345.
- Fredrickson, B. L. (2001). The role of positive emotions in positive psychology: The broaden-and-build theory of positive emotions. *American Psychologist*, 56, 218–226.
- Fredrickson, B. L., Tugade, M. M., Waugh, C. E., & Larkin, G. R. (2003). What good are positive emotions in crises?: A prospective study of resilience and emotions following the terrorist attacks on the United States on September 11th, 2001. *Journal of Personality and Social Psychology*, 84, 365–376.
- Frost, I. (1938). Homesickness and immigrant psychoses. *Journal of Mental Science*, 84, 801–847.
- Gabriel, Y. (1993). Organizational nostalgia: Reflections on "The Golden Age." In S. Fineman (Ed.), *Emotion in organizations* (pp. 118–141). London, England: Sage Publications, Inc.
- Green, J. D., & Sedikides, C. (1999). Affect and self-focused attention revisited: The role of affect orientation. *Personality and Social Psychology Bulletin*, 25, 104–119.

- Green, J. D., Sedikides, C., Saltzberg, J. A., & Wood, J. V., & Forzano, L.-A. B. (2003). Happy mood decreases self-focused attention. *British Journal of Social Psychology*, 42, 147-157.
- Greenberg, J., Solomon, S., & Pyszczynski, T. (1997). Terror management theory of self-esteem and social behavior: Empirical assessments and conceptual refinements. In M. P. Zanna (Ed.), *Advances in Experimental Social Psychology* (Vol. 29, pp. 61-139). New York: Academic Press.
- Havlena, W. J., & Holak, S. L. (1991). "The good old days": Observations on nostalgia and its role in consumer behavior. *Advances in Consumer Research*, 18, 323-329.
- Hertz, D. G. (1990). Trauma and nostalgia: New aspects of the coping of aging holocaust survivors. *Israeli Journal of Psychiatry and Related Sciences*, 27, 189-198.
- Hofer, J. (1934). Medical dissertation on nostalgia (C. K. Anspach, Trans.). *Bulletin of the History of Medicine*, 2, 376-391. (Original work published 1688)
- Holak, S. L., & Havlena, W. J. (1998). Feelings, fantasies, and memories: An examination of the emotional components of nostalgia. *Journal of Business Research*, 42, 217-226.
- Holbrook, M. B. (1993). Nostalgia and consumption preferences: Some emerging patterns of consumer tastes. *Journal of Consumer Research*, 20, 245-256.
- Holbrook, M. B. (1994). Nostalgia proneness and consumer tastes. In J. A. Howard (Ed.), *Buyer behavior in marketing strategy* (2nd ed., pp. 348-364). Englewood Cliffs, NJ: Prentice-Hall.
- Holmes, T. H., & Rahe, R. H. (1967). The social readjustment rating scale. *Journal of Psychosomatic Research*, 11, 213-218.
- Jackson, S. W. (1986). *Melancholia and depression: From Hippocratic times to modern times*. New Haven: Yale University Press.
- Johnson-Laird, P. N., & Oatley, K. (1989). The language of emotions: An analysis of semantic field. *Cognition and Emotion*, 3, 81-123.
- Juola Exline, J., Baumeister, R. F., Bushman, B. J., Campbell, W. K., & Finkel, E. J. (2004). Too proud to let go: Narcissistic entitlement as a barrier to forgiveness. *Journal of Personality and Social Psychology*, 87, 894-912.
- Kaplan, H. A. (1987). The psychopathology of nostalgia. *Psychoanalytic Review*, 74, 465-486.
- Keltner, D. (1995). The signs of appeasement: Evidence for the distinct displays of embarrassment, amusement, and shame. *Journal of Personality and Social Psychology*, 68, 441-454.
- Keltner, D., & Beer, J. S. (2005). Self-conscious emotion and self-regulation. In A. Tesser, J. V. Wood, & D. A. Stapel (Eds.), *On building, defending and regulating the self: A psychological perspective* (pp. 197-215). New York: Psychology Press.
- Kleiner, J. (1977). On nostalgia. In C. W. Socarides (Ed.), *The world of emotions* (pp. 471-498). New York: International University Press.
- Larsen, R., & Ketelaar, T. (1991). Personality and susceptibility to positive and negative emotional states. *Journal of Personality and Social Psychology*, 61, 132-140.
- McAdams, D. P., Diamond, A., de St. Aubin, E., & Mansfield, E. (1997). Stories of commitment: The psychosocial construction of generative lives. *Journal of Personality and Social Psychology*, 72, 678-694.
- McAdams, D. P., Reynolds, J., Lewis, M., Patten, A. H., & Bowman, P. J. (2001). When bad things turn good and good things turn bad: Sequences of redemption and contamination in life narratives and their relation to psychosocial adaptation in midlife adults and in students. *Personality and Social Psychology Bulletin*, 27, 474-485.



- McCann, W. H. (1941). Nostalgia: A review of the literature. *Psychological Bulletin*, 38, 165-182.
- Mikulincer, M., Florian, V., & Hirschberger, G. (2003). The existential function of close relationships: Introducing death into the science of love. *Personality and Social Psychology Review*, 7, 20-40.
- Milligan, M. J. (2003). Displacement and identity discontinuity: The role of nostalgia in establishing new identity categories. *Symbolic Interaction*, 26, 381-403.
- Mills, M. A., & Coleman, P. G. (1994). Nostalgic memories in dementia: A case study. *International Journal of Aging and Human Development*, 38, 203-219.
- Ortony, A., Clore, G. L., & Collins, A. (1988). *The cognitive structure of emotions*. Cambridge, England: Cambridge University Press.
- Peters, R. (1985). Reflections on the origin and aim of nostalgia. *Journal of Analytical Psychology*, 30, 135-148.
- Pyszczynski, T., Greenberg, J., Solomon, S., Arndt, J., & Schimel, J. (2004). Why do people need self-esteem? A theoretical and empirical review. *Psychological Bulletin*, 130, 435-468.
- Rosen, G. (1975). Nostalgia: A "forgotten" psychological disorder. *Psychological Medicine*, 5, 340-354.
- Routledge, C., & Arndt, J. (2005). Time and terror: Managing temporal consciousness and the awareness of mortality. In A. Strathman & J. Joireman (Eds.), *Understanding behavior in the context of time: Theory, research, and applications* (pp. 59-84). Mahwah, NJ: Lawrence Erlbaum Associates, Inc.
- Routledge, C., Arndt, J., Sedikides, C., & Wildschut, T. (2006). A blast from the past: The terror management function of nostalgia. Unpublished manuscript. University of Southampton.
- Scheier, M. F., & Carver, C. S. (1977). Self-focused attention and the experience of emotion: Attraction, repulsion, elation, and depression. *Journal of Personality and Social Psychology*, 35, 625-636.
- Schmeichel, B. J., & Martens, A. (2005). Self-affirmation and mortality salience: Affirming values reduces worldview defense and death-thought accessibility. *Personality and Social Psychology Bulletin*, 31, 658-667.
- Schneider, T. R. (2004). The role of neuroticism on psychological and physiological stress responses. *Journal of Experimental Social Psychology*, 40, 795-804.
- Sedikides, C. (1992a). Mood as a determinant of attentional focus. *Cognition and Emotion*, 6, 129-148.
- Sedikides, C. (1992b). Attentional effects on mood are moderated by chronic self-conception valence. *Personality and Social Psychology Bulletin*, 18, 550-584.
- Sedikides, C. (1992c). Changes in the valence of the self as a function of mood. *Review of Personality and Social Psychology*, 14, 271-311.
- Sedikides, C. (1994). Incongruent effects of sad mood on self-conception valence: It's a matter of time. *European Journal of Social Psychology*, 24, 161-172.
- Sedikides, C. (1995). Central and peripheral self-conceptions are differentially influenced by mood: Tests of the differential sensitivity hypothesis. *Journal of Personality and Social Psychology*, 69, 759-777.
- Sedikides, C., Campbell, W. K., Reeder, G., & Elliot, A. J. (1998). The self-serving bias in relational context. *Journal of Personality and Social Psychology*, 74, 378-386.
- Sedikides, C., & Green, J. D. (2000). The rocky road from affect to attentional focus. In H. Bless & J. P. Forgas (Eds.), *The message within: The role of subjective experience in social cognition and behavior* (pp. 203-215). Philadelphia, PA: Psychology Press.

- Sedikides, C., & Green, J. D. (2001). Affective influences on the self-concept: Qualifying the mood congruency principle. In J. P. Forgas (Ed.), *The Handbook of affect and social cognition* (pp. 145–160). Mahwah, NJ: Lawrence Erlbaum Associates, Inc.
- Sedikides, C., Green, J. D., & Pinter, B. (2004). Self-protective memory. In D. R. Beike, J. M. Lampinen, & D. A. Behrend (Eds.), *The self and memory* (pp. 161–179). Philadelphia, PA: Psychology Press.
- Sedikides, C., & Gregg, A. P. (2003). Portraits of the self. In M. A. Hogg & J. Cooper (Eds.), *Sage handbook of social psychology* (pp. 110–138). London: Sage Publications.
- Sedikides, C., Rudich, E. A., Gregg, A. P., Kumashiro, M., & Rusbult, C. (2004). Are normal narcissists psychologically healthy?: Self-esteem matters. *Journal of Personality and Social Psychology*, 87, 400–416.
- Sedikides, C., & Strube, M. J. (1997). Self-evaluation: To thine own self be good, to thine own self be sure, to thine own self be true, and to thine own self be better. In M. P. Zanna (Ed.), *Advances in experimental social psychology* (Vol. 29, pp. 209–269). New York: Academic Press.
- Sedikides, C., Wildschut, T., & Baden, D. (2004). Nostalgia: Conceptual issues and existential functions. In J. Greenberg, S. Koole, & T. Pyszczynski (Eds.), *Handbook of experimental existential psychology* (pp. 200–214). New York, NY: Guilford Press.
- Simon, L., Arndt, J., Greenberg, J., Pyszczynski, T., & Solomon, S. (1998). Terror management and meaning: Evidence that the opportunity to defend the worldview in response to mortality salience increases the meaningfulness of life in the mildly depressed. *Journal of Personality*, 66, 359–382.
- Smith, C. A., & Kirby, L. D. (2001). Toward delivering on the promise of appraisal theory. In K. R. Scherer, A. Schorr, & T. Johnstone (Eds.), *Appraisal processes in emotion: Theory, methods, research* (pp. 121–138). New York: Oxford University Press.
- Socarides, C. W. (1977). (Ed.). *The world of emotions: Clinical studies of affects and their expression*. New York: International University Press.
- Sohn, L. (1983). Nostalgia. *International Journal of Psychoanalysis*, 64, 203–211.
- Solomon, S., Greenberg, J., & Pyszczynski, T. (1991). A terror management theory of social behavior: The psychological functions of self-esteem and cultural worldviews. In L. Berkowitz (Ed.), *Advances in experimental social psychology* (Vol. 24, pp. 93–159). New York: Academic Press.
- Spangler, W. E., & Palrecha, R. (2004). The relative contributions of extraversion, neuroticism, and personal strivings to happiness. *Personality and Individual Differences*, 37, 1193–1203.
- Steele, C. M. (1988). The psychology of self-affirmation: Sustaining the integrity of the self. In L. Berkowitz (Ed.), *Advances in experimental social psychology* (pp. 261–302). Hillsdale, NJ: Lawrence Erlbaum Associates, Inc.
- Stroebe, M., van Vliet, T., Hewstone, M., & Willis, H. (2002). Homesickness among students in two cultures: Antecedents and consequences. *British Journal of Psychology*, 93, 147–168.
- Tamir, M., & Robinson, M. D. (2004). Knowing good from bad: The paradox of neuroticism, negative affect, and evaluative processing. *Journal of Personality and Social Psychology*, 87, 913–925.
- Tangney, J. P. (2002). Self-conscious emotions: The self as a moral guide. In A. Tesser, D. A. Stapel, & J. V. Wood (Eds.), *Self and motivation: Emerging psychological perspectives* (pp. 97–117). Washington, DC: American Psychological Association.
- Tangney, J. P. (2003). Self-relevant emotions. In M. R. Leary & J. P. Tangney (Eds.), *Handbook of self and identity* (pp. 384–400). New York: Guilford Press.

- Taylor, S. E., Lerner, J. S., Sherman, D. K., Sage, R. M., & McDowell, N. K. (2003a). Portrait of the self-enhancer: Well adjusted and well liked or maladjusted and friendless? *Journal of Personality and Social Psychology*, 84, 165–176.
- Taylor, S. E., Lerner, J. S., Sherman, D. K., Sage, R. M., & McDowell, N. K. (2003b). Are self-enhancing cognitions associated with healthy or unhealthy biological profiles? *Journal of Personality and Social Psychology*, 85, 605–615.
- Trope, Y., & Pomerantz, E. M. (1998). Resolving conflicts among self-evaluative motives: Positive experiences as a resource for overcoming defensiveness. *Motivation and Emotion*, 22, 53–72.
- Werman, D. S. (1977). Normal and pathological nostalgia. *Journal of the American Psychoanalytic Association*, 25, 387–398.
- Wildschut, T., Sedikides, C., Arndt, J., & Routledge, C. D. (in press). Nostalgia: Content, triggers, functions. *Journal of Personality and Social Psychology*.
- Wildschut, T., Sedikides, C., Arndt, J., Routledge, C., & Hodgson, A. (2006). A test of Davis's (1979) discontinuity hypothesis. Unpublished raw data, University of Southampton.
- Van Tilburg, M. A. L., Vingerhoets, J. J. M., & van Heck, G. L. (1996). Homesickness: A review of the literature. *Psychological Medicine*, 26, 899–912.