

**Abstract**

The achievement of an identity is commonly construed as a choice between options, for instance, between becoming a physician or a chemist, a housewife or a professional. This approach, however, ignores the fact that identity choices, even when based on cumbersome deliberation, need to be followed up by implementational efforts. The present chapter focuses on this willful construction of a chosen identity (i.e., the implementation of identity goals) and attempts to delineate those features that distinguish it from other forms of goal-striving. More specifically, it is suggested that the pursuit of identity goals is enduring over time, as such goals cannot actually be completed and are not easily halted by failure. In fact, failure experiences invigorate identity goal pursuits, as suggested by various experiments demonstrating that identity-related failures affect subsequent identity-relevant performances positively. Moreover, it has been shown that identity-related social recognition hampers goal-directed efforts instead of facilitating them. Apparently, identity goals entail the mere claim to be, for example, a physician in the eyes of others (i.e., are represented on the level of social reality). The chapter also addresses issues of whether the willful pursuit of identities is moderated by people's framing of the identity goal in question (i.e., as a mastery goal as opposed to a learning goal, with a positive-outcome as opposed to a negative-outcome focus), and it discusses how the processes involved with choosing an identity differ from processes associated with the implementation of the chosen identity. Finally, the present approach is related to classic notions of life-span development (i.e., the model of selective optimization with compensation, the distinction between primary and secondary forms of control), and it is suggested that people of old age and very old age are likely to remain able to maintain their identity claims, an ability that is facilitated by their tendency to reduce their social contacts to a few intimates.

## Introduction

The psychology of the self (Suls & Greenwald, 1983; Suls, 1993) and the sociology of identity (Yardley & Honess, 1987; Stryker & Statham, 1985) focus on the following question: How does a person conceive of his or her self? In this sense, the term *self* (or *identity*) refers to a cognitive structure that incorporates all the ways in which a person characteristically answers the question "Who am I?" Following James's (1890/1950) lead, researchers consider the answers given to this question as falling into a number of different categories (Gordon, 1968; Rosenberg, 1979). One group of answers relates to physical attributes (e.g., "I am tall"); another relates to the broader categories of social identities, which include the various informal and formal, chosen or assigned social roles an individual occupies (e.g., "I am a youngster," "I am a daughter," "I am a student," "I am a butcher,"). Some answers may refer to perceived traits and dispositions (e.g., "I am tolerant"), to skills and aptitudes (e.g., "I am a math whiz-kid"), or to values and interests (e.g., "I love to travel").

The answers that researchers studying the self or identity give to the question of how a person conceives of her or his self depend on the theoretical background and the self-aspects (i.e., physical, social, or personal aspects) that are focused on. For instance, Bem's self-perception theory (1972) claims that people make inferences about the self-aspects they possess by observing their own behaviors, feelings, and thoughts. More sociologically inclined approaches postulate that people infer the contents of their identity by observing the behavior of other people toward them (based on Cooley, 1902) or by analyzing the role that people play in the social community to which they belong (based on Mead, 1934). Socioecological approaches (e.g., Hormuth, 1986) point out that people also use the material objects that surround them and the opportunity structures in which they feel embedded to make inferences about the self.

Social-psychological approaches to the self assert that a person searching for self-knowledge actively creates his or her social environments. Such an approach is exemplified by Swann (1983), who hypothesizes in his self-verification theory that people verify self-related beliefs by choosing interaction partners who are known to support their preferred self-conceptions. Social-interactionist approaches (e.g., Stryker's 1985 identity salience theory; see Stryker & Statham, 1985) assign a similar active role to the individual in the context of acquiring self-knowledge.

The various approaches listed so far assert that self or identity is construed as something the individual needs to cognize. It is not surprising,

then, that researchers in this tradition prefer to speak of the self or identity in terms of the self-concept. The emphasis is on how the individual conceives the self. This is also true for the intriguing extension of this work, which deals with people's conceptions of what they hope or fear to become (for the concept of possible selves, see Markus & Nurius, 1986). Controversies in self-concept research surround issues of whether the self is construed as a coherent entity or is composed of many partial selves (Greenwald, 1982), whether the self-concept is stable or malleable (Gergen, 1982), and whether the self-concept is accurate or illusory (Brown, 1991).

Another important branch of research focuses on how people evaluate the self (Greenwald, 1980; Stahlberg, Osnabrügge, & Frey, 1985). This affective response is discussed in its most global form as a person's self-esteem. It is commonly assumed that people have a pervasive need for high self-esteem, so discussion focuses on where this need comes from and how it is served. Greenberg, Pyszczynski, and Solomon (1986) point to the terror associated with the fear of death as the critical source of the need for self-esteem; Baumeister and Tice (1990) refer to the terror of social exclusion. Various ideas have also been offered about how positive self-evaluations come about. Some researchers see a link between structural qualities of the self-concept and positive self-evaluations (clarity of self-concept, Campbell, 1990; complexity of self-concept, Linville, 1987). Others (Higgins, 1987) point out that a person's affective responses toward the self are associated with the discrepancies that people experience between so-called self-guides (i.e., the ideal or ought self) and the actual self. Finally, research on the psychology of the self has also analyzed how relating to others affects a person's self-evaluations. Tesser (1988), in his self-evaluation maintenance theory, focuses on social comparison processes and basking in the reflected glory of others. Baumeister (1982), on the other hand, points to strategic self-presentations as a means to boosting one's self-evaluation.

Research on positive self-evaluation processes and self-esteem construes the self as something that is (to be) evaluated by the individual. This adds an affective and motivational dimension to the self-concept research that traditionally looked at the self as something to be cognized. What research on positive self-evaluations does not yet capture, however, is how the desired self is achieved behaviorally. The self or identity (or aspects of it) may be construed as goals the individual attempts to attain. This goal perspective on the self has been exemplified in Wicklund and Gollwitzer's (1982) theory of symbolic self-completion, which focuses on how self-defining goals are implemented by the individual. Heckhausen (1989) and Gollwitzer (1990; Heckhausen & Gollwitzer, 1987) have distinguished between

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motivational and volitional processes of wish fulfillment. Whereas motivational processes guide a person's choice between goals, volitional processes are assumed to determine a person's implementation of the chosen goals. The former relate to issues of the feasibility and desirability of potential goals (i.e., wishes and desires), whereas the latter relate to a person's commitment to the chosen goal, holding on to the goal in the face of difficulties, and successful goal pursuit. From the perspective of a distinction between motivation and volition, research on the self has traditionally been concerned with motivational issues of the feasibility and desirability of the various aspects of the self (i.e., self-concept research and self-evaluation research, respectively). Self-completion theory, on the other hand, is concerned with the volitional issue of implementing identity-related (self-defining) goals.

### Self-Completion Theory

#### Historical Roots

Self-completion theory (Wicklund & Gollwitzer, 1982) is based on Lewin's (1926) ideas on goal-directed action. According to Lewin, quasi-needs originate when people set themselves goals. A quasi-need is associated with a tension state that persists until the goal is attained. The tension state is linked to the person's commitment to reach the goal. Accordingly, this tension is said to persist when a person's goal-directed activities are disrupted and thus do not lead to goal attainment (as demonstrated by Lewin's colleagues Lissner, 1933; Mahler, 1933; Ovsiankina, 1928; Zeigarnik, 1927). However – and this is particularly important for self-completion processes – Lissner and Mahler demonstrated early on that the persevering tension state can be reduced by performing alternative goal-directed activities when disruption of an original goal-directed action has occurred. This implies that tension reduction stems not only from completion of an ongoing goal-directed action but also from successfully performing substitute actions.

In the experimental studies analyzing this principle, Lewin's colleagues employed simple tasks such as building a tower out of wooden blocks, translating a French piece of prose into German, solving mathematical problems with pencil and paper, and creating small sculptures from modeling clay. Shortly after beginning the task, subjects were interrupted and asked to solve a substitute task. They were then allowed to return to the interrupted original task. Of interest was whether subjects would take advantage of this opportunity to *complete the original task*. Mahler (1933) postulated that

whenever subjects experience a correspondence between the quality of the goal served by solving the *substitute* task and the quality of the goal served by the *original* task, they are no longer inclined to return to the original task because substitute completion had occurred. Accordingly, in the event that solving a substitute task reduces the frequency of resumption of the original task, it can be inferred that the goal of the original task entails qualities that are served by the substitute task performed. Mahler reasoned that the substitution paradigm not only tests Lewin's quasi-need theory but also unveils the individual goal conceptions or inner goals people have when approaching a task. One simply has to analyze which activities can substitute for the original goal-striving.

Mahler observed that for people who were asked to build a house of wooden blocks but were interrupted, drawing a picture of that house qualified as a powerful substitute. More interestingly, when people were asked to perform more intellectual tasks (e.g., solving a mathematical problem), other quite different intellectual tasks (e.g., solving a puzzle) served as substitutes. Apparently, although the experimenter instructed subjects to perform a particular mathematical problem (i.e., the original task), subjects did not subscribe to the external goal assigned by the experimenter but tried to meet the self-set goal of showing creativity, intelligence, and ambition. Henle (1944) and Hoppe (1930) demonstrated that the subjects' inner goals may already touch such higher spheres of the ego when rather simple and concrete tasks are at stake (e.g., creating a sculpture out of modeling clay or solving simple mathematical problems).

Mahler also discovered that inner goals that involve such self-related issues as creativity and intelligence are conceived of by the individual *on the plane of social reality*. She argued that whenever solving a certain task was interpreted by the individual as a test of intelligence, creativity, or of any other self-related attribute, it was necessary that others take notice of the completion of the substitute task. No sense of having reached a self-related goal would occur as long as relevant task solutions did not become a social fact by being noticed by others. To demonstrate this, for the original task Mahler gave her subjects mathematical problems or asked them to construct creative sentences from lists of words. The substitute tasks required that subjects solve some other intellectual problems either through silent deliberation or through speaking aloud. Speaking aloud proved to be more effective with respect to suppressing the resumption of the original task. Apparently, subjects not only sought to find solutions to the mathematical or creative problems posed as the original task, but also wanted others (in this case, the experimenter) to recognize that they were smart or creative. Only

solving the substitute tasks aloud provided the subjects with a sense of having attained the self-related goals of being smart or creative to which they had aspired while working on the original tasks.

### *The Concept of Self-defining Goals*

The theory of self-completion describes the dynamics of striving for self-defining goals. The distinction between self-defining goals and non-self-defining goals (Gollwitzer & Wicklund, 1985b) is illustrated in the following example. Two students undertake their first major task in the laboratory of an experimental psychology class. The assigned objective is clear and distinct: Train a pigeon to execute a peculiar behavior with high reliability. Suppose that one student (a work-study student) is solely interested in training the pigeon to behave in the way demanded; the other student's interest is only peripherally on the external goal (the advisor's) and more centrally on the goal of becoming an experimental psychologist.

Both students fail to achieve the task set by the advisor. Given that the first student's goal orientation in the situation is defined by the non-self-defining goal of simply meeting the set task, one might expect that student to feel frustrated and perhaps to try alternative means to train the bird to perform the peculiar behavior. The reaction of the second student who aspires to become an experimental psychologist may well be much different. Assuming that an accomplished feat of animal training is nothing more than one possible indicator of being a psychologist, the student can readily resort to alternative routes of completing his self-definition, such as attempting to put his name on publications, becoming associated with recognized psychologists, acquiring a collection of psychology books and journals, or taking a temporary job as a psychology instructor.

Self-completion theory applies the term *self-defining goals* to refer to people's ideal conceptions of themselves as possessing a readiness or potential to enact certain content-specific classes of behavior. If the self-defining goal is, for instance, to be a jogger, then the related activities involve running, wearing the appropriate clothes, associating with runners, and so on. With the concept of goal, the theory points to the individual's commitment to reach the ideal condition that embodies all the qualities pertaining to the aspired self-definition.

### *Indicators of Completeness and Social Reality*

To acquire self-defining goals means accumulating relevant indicators or symbols. Self-completion theory assumes that each particular self-defining

goal is composed of a whole set of various symbols. Accordingly, indicating the possession of the aspired self-definition (the theory speaks of self-symbolizing) may take different forms. It is possible, for instance, to self-symbolize through the exercise of identity-related social influence (e.g., an academic psychologist may engage in teaching psychology), by displaying material symbols (e.g., a pious person may wear a golden cross), through the fulfillment of the daily duties and performances associated with a particular identity (e.g., a baker bakes bread), by simply making a verbal claim to possession of a particular identity (e.g., "I am a psychologist"), or through the acquisition of the skills and tools associated with a specific identity (e.g., a musician acquires an education in music theory and a fine-quality instrument).

These various forms of self-symbolizing obviously differ in terms of their accessibility. For instance, showing off relevant symbols one already possesses as well as making self-descriptions that state a claim to possession of the intended identity are readily accessible and easily achievable approaches. This is less true for the actual acquisition of relevant symbols, such as attaining advanced education. From the perspective of self-completion theory, however, accessibility of self-symbolizing is not a crucial variable. Not only the forms of self-symbolizing that are easily attainable, but also those that are difficult to perform, potentially indicate to others one's claim to possess the intended self-definition.

What matters more is whether the chosen form of self-symbolizing effectively indicates one's claim to others. Self-completion theory asserts that the possession of relevant symbols in and of itself is not sufficient to create a sense of identity-related completeness. These indicators must serve their indicative function and therefore must become a social fact. This occurs when the social community recognizes the indicators as a claim to the possession of particular self-definitions. It is this recognition by others that strengthens a person's sense of identity-related completeness.

### *Research Stimulated by Self-Completion Theory*

Self-completion theory has stimulated many empirical studies on people's pursuits of all kinds of self-defining goals: being a good mother, religious person, feminist, athlete, business manager, or a physician. The studies can be grouped with respect to the central hypotheses tested.

**The Compensation Hypothesis.** Self-completion theory postulates that whenever people who strive for a self-defining goal experience the lack of a relevant symbol, a sense of incompleteness arises. This incompleteness

may come about because comparing oneself to others makes salient that one is falling short of certain indicators (e.g., when colleagues repeatedly recount their recent successes). However, incompleteness also originates when people receive negative feedback (e.g., through teachers) about identity-relevant performances or when their attempts to acquire relevant symbols fail. Self-completion theory assumes that experiences of incompleteness are not accepted passively but that people attempt to strive for the desired identity goal via alternative routes – similar to the manner in which Mahler's subjects embraced the substitute task when the original task had been interrupted. As identity goals commonly imply a whole array of symbols, the individual does not have to focus her or his compensatory efforts on the experienced shortcoming or incompleteness. Compensatory efforts can be expressed in any of the many alternative routes of self-symbolizing.

This compensation hypothesis has been supported in a series of experiments that used the following paradigm. Subjects were selected on the basis of being committed to one or another self-defining goal (e.g., musician, physician, mother, religious person). Half the subjects (incomplete subjects) were made to feel incomplete by pointing out to them that they lacked a relevant indicator. The other half of the subjects (complete subjects) were made to feel that they possessed this indicator. Finally, in a different situational context (i.e., a different experimenter in a presumably unrelated second experiment) subjects had a chance to acquire an alternative symbol or at least point to its possession. The extent to which subjects made use of this chance to self-symbolize was measured.

A typical example of such an experiment is a study with young business managers who returned to the business school of the University of Texas to attend summer school courses (Gollwitzer, 1983). The study was conducted by two experimenters. The first experimenter introduced himself as a personality psychologist and asked subjects to fill out a semantic differential type of questionnaire that presented several pairs of adjectives (e.g., weak-strong, warm-cold, active-passive). Subjects were informed that they were to fill out the questionnaire so that the personality psychologist could determine whether young business managers possessed the ideal personality profile observed in successful businesspeople. Once subjects had completed the questionnaire, the second experimenter introduced himself as an industrial psychologist and explained that he would conduct a study in which the subjects would take part in a staged executive committee meeting. Subjects could choose from among six roles to play, ranging from chair of the board to secretary and keeper of the minutes. Shortly before subjects were asked to make their choices, the first experimenter (the personality psychologist)

disrupted the proceedings of the study of the industrial psychologist and handed his feedback to the subjects. Half the subjects were told that their personality profile differed greatly from the ideal profile of a successful businessperson; the other half were told that their personality profile closely matched the ideal profile.

This feedback was intended to create feelings of either incompleteness or completeness. As expected, subjects with negative personality feedback chose the chair position significantly more often than did the subjects with positive personality feedback. Self-completion theory interprets this finding by holding that the lack of one symbol of an intended identity (i.e., lacking the proper personality attributes) is substituted with self-symbolizing efforts focusing on an alternative symbol (i.e., laying claim to a relevant position of high status).

Compensatory self-symbolizing has been demonstrated in numerous other studies, in which other types of self-symbolizing were offered. Incomplete subjects showed a greater readiness to teach others in the domain relevant for their identity (Wicklund & Gollwitzer, 1981). They also invented more positive self-descriptions and refused to admit to failures (Gollwitzer, Wicklund, & Hilton, 1982). Further, they distanced themselves from unsuccessful people (Wagner, Wicklund, & Shaigan, 1990), displayed material symbols (e.g., articles symbolic of religious beliefs such as a cross or a star of David; Wicklund & Gollwitzer, 1982, chap. 9), or used prestigious tools (Braun & Wicklund, 1989). All of self-symbolizing, of course, was observed in the field of interest pertaining to subjects' identity goals.

For the induction of the experience of incompleteness, the negative personality feedback procedure was not the only paradigm used. In some studies, subjects were asked to write about their worst teacher in their field of interest (see Wicklund & Gollwitzer, 1981), or subjects were induced to come up with positive self-descriptions, which were then disrupted (see Gollwitzer, Wicklund, & Hilton, 1982). Finally, subjects were asked to list accomplishments relevant to their identity that, by all means, they could not yet have achieved (e.g., psychology undergraduates were asked to list their major publications; Wagner et al. 1990). In all these compensation studies, subjects were convinced that the so-called first experiment in which the incompleteness experience occurred was not related to the second study. In addition, the second experimenter was not aware of subjects' feelings of incompleteness.

**The Social Reality Hypothesis.** Based on Mahler's (1933) observation that self-defining goals are located on the level of social reality, self-completion theory postulates that self-symbolizing that becomes a social

fact is likely to be particularly effective in reducing a sense of incompleteness. This hypothesis has been confirmed by two types of experimental studies (Gollwitzer, 1986a, studies 1 to 4). In the first experimental paradigm (see studies 1 and 2), subjects are first given the opportunity to engage in a self-symbolizing activity. In order to vary whether these efforts become a social fact, subjects are placed in a situation where self-symbolizing either is noticed by others or remains unnoticed. Given that identity goals are located on the level of social reality, striving for an identity in front of an audience is expected to provide a stronger sense of possessing the intended identity than striving in the absence of an audience. To determine whether this is the case, subjects are brought to a new situational context where they are provided a further opportunity to strive for the intended identity. If self-symbolizing noticed by others provides a stronger sense of completeness than does self-symbolizing that remains unnoticed, comparatively less self-symbolizing is likely to be observed in subjects whose original self-symbolizing is noticed by others.

Following this logic, Gollwitzer (1986a, study 1) asked female college students with the identity goal of raising a family to write down personal skills relevant to succeeding as a mother. Subjects were told either that these self-descriptions would be carefully studied by a partner subject or that their descriptions would not become known to others. Thereafter, all subjects were given the opportunity to engage in further self-symbolizing by completing a personality profile questionnaire. This questionnaire carried a sample profile that was said to represent the ideal personality of a mother. The subjects who were told that their initial self-symbolizing would not be made known to the partner subject felt compelled to engage in further self-symbolizing by drawing their own profile close to the ideal mother profile provided. Subjects who were told that their initial self-descriptions would be noticed by a partner subject, however, ascribed attributes to themselves that were at variance with the ideal mother profile.

In a second study following the same logic (Gollwitzer, 1986a, study 2), subjects were medical students committed to becoming physicians. All subjects were induced to work on a stack of simple medical problems in a paper and pencil format. After the third problem had been completed, subjects' work was turned into a social fact (i.e., a confederate either took notice of task performance or ignored it). It was then observed how long subjects persisted working on the rest of the stack. Subjects whose prior performance was taken notice of by another person persisted comparatively less. This finding demonstrates that identity performances noticed by others make further identity-striving less necessary, thus supporting the self-completion theory notion of social reality. Apparently, a stronger sense of

completeness arises when indications of the possession of an intended identity are socially realized.

The hypothesis that self-symbolizing that becomes a social fact is particularly effective has also been tested via a different approach. This approach is based on the idea that individuals who are oriented toward achieving a particular identity but feel incomplete are likely to be especially concerned with finding an audience for their identity-related strivings. Accordingly, one has to manipulate people's readiness to engage in identity-related goal-striving (by making some subjects incomplete and others complete), and then observe subjects' self-initiative in making self-symbolizing noticed by others. Two experiments reported by Gollwitzer (1986a, studies 3 and 4) followed this logic. In study 3, medical students with the expressed intention of becoming physicians were made either complete or incomplete by being given positive or negative personality feedback with respect to their prospects as physicians. In a subsequent, presumably independent, experiment subjects were provided with the opportunity to engage in self-symbolizing through finding solutions to a series of simple medical problems (i.e., a stack of fifteen problems stated on index cards was placed in front of subjects, who were to write their solutions on these cards). The subjects were told that they could submit completed sections of the assignment to the experimenter whenever desired (i.e., before having completed the entire stack of fifteen tasks). More than 50 percent of the incomplete subjects attempted to bring their completed tasks to the experimenter's notice before finishing the entire stack of tasks; for the complete subjects this percentage was drastically lower (i.e., only 8 percent).

Self-initiative to make one's self-symbolizing efforts known to others was also observed among female undergraduates who pursued the identity goal of dancer. Subjects who wrote a lengthy essay on their worst dancing instructor (incomplete subjects) wanted to be scheduled for a public dancing session about two weeks earlier than subjects who had to write about their best dancing instructor (complete subjects). Apparently, subjects whose readiness to engage in self-symbolizing had been stimulated (i.e., incomplete subjects) selected comparatively earlier dates for the public performance of a dance routine. Assuming that performing this dance routine qualifies as an indicator of the identity of dancer, these results suggest that people are more anxious for self-symbolizing efforts to be noticed by others when they are in a state of incompleteness.

**The Social Insensitivity Hypothesis.** Knowing that self-symbolizing individuals turn to others in an effort to strengthen their sense of possessing an intended identity, the next question is "How do self-symbolizing individuals



we analyzed subjects' self-descriptions in terms of their positivity, incomplete subjects produced more self-aggrandizing descriptions than did complete subjects, regardless of the target person's preference for meeting individuals with modest as opposed to proud self-descriptions. Moreover, self-symbolizing individuals ignored even their own interpersonal interests. Whereas complete subjects followed the target person's self-presentational cue to the degree to which they felt attracted to her, incomplete subjects' self-descriptions were totally unaffected by their feelings of attraction.

In summary, self-symbolizing individuals do not seem to care much about their audiences' interests. They focus on making their self-definitional strengths known to others. This is true whether the audience is present in person or not and whether the audience explicitly expresses its interests or not.

### **Self-Completion Processes: Controversial Issues and Open Questions**

#### *Mutual Exchangeability of Symbols*

Consistent with the theoretical position guiding self-completion research, Wurf and Markus (1991) have claimed that in the domain of identity strivings, "failure of particular routes to achievement will often lead to enhanced rather than decreased striving, . . . and the person will flexibly and creatively try multiple pathways to achievement" (p. 58). However, Wurf and Markus also argued that symbolic validation of the self (e.g., claiming the possession of a self-definition via positive self-descriptions) might be less satisfying than actual achievements (e.g., mastering performances implied by the self-definition). In contrast, from the standpoint of self-completion theory, positive self-descriptions are likely to be as effective in generating a sense of self-definitional completeness as self-defining task performances when the given self-description is recognized by others, thereby becoming a social reality (Gollwitzer, 1986b).

We have addressed this issue directly in two recent experiments (Brunstein & Gollwitzer, 1996), both of which employed an experimental paradigm commonly used in research on learned helplessness. Subjects were asked to work on a first task (so-called training task), and they were given failure feedback or no performance feedback. Subsequently subjects worked on a second task (so-called test task), and their level of performance was assessed. In our first experiment, medical students who intended to become physicians were instructed to solve simple interpersonal problems presented

relate to their audiences?" Self-completion theory suggests that this type of relating to others is best described as a pseudosocial interaction. Self-symbolizing individuals do not conceive of their audiences as partners for mutual exchange. Rather, these individuals regard the audience as serving the sole function of taking notice of their claim to possess the aspired identity. Attributes of the audience that go beyond this purpose (e.g., the audience's own feelings and interests) are largely neglected.

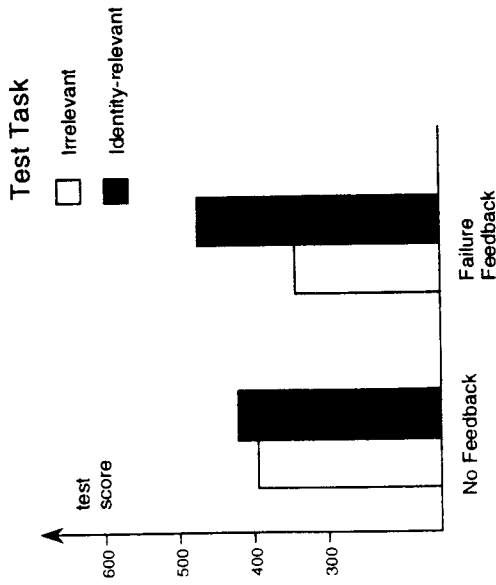
This hypothesis of social insensitivity was tested in experiments with the following paradigm. As in classic self-presentation studies (Baumeister, 1982), subjects were first told about the personal wishes and desires of the audience. These wishes and desires were posed in a way that either contradicted subjects' self-symbolizing efforts or were in line with them. Finally, it was observed how incomplete and complete subjects followed the audience's wishes and desires.

Gollwitzer and Wicklund (1985a) conducted two experiments that demonstrate that individuals who strive to self-symbolize neglect the thoughts and feelings of the audiences to which their efforts are directed. In the first study, female undergraduates with the identity goal of being a career woman were made either complete or incomplete by feedback that their personality attributes either did or did not predestine them to professional success. In a presumably different second experiment, complete and incomplete subjects were then grouped into pairs and told to cooperate with each other. They were instructed to create positive self-descriptions related either to the intended identity or to an identity that they did not care to possess. When the self-descriptions to be created were related to the identity of a career woman, incomplete subjects dominated the interaction by producing more positive self-descriptive statements than did their complete partner subjects. Even though incomplete subjects knew that the partner subject was also trying to create many positive self-descriptions, the orientation toward self-symbolizing provoked by the negative personality feedback suppressed such interpersonal concerns.

In the second study, male undergraduates committed to various sports (e.g., swimming, tennis, track) were first made to feel either incomplete or complete and then asked to participate in a supposed second study on first impressions. The target person to be encountered was described as an attractive female undergraduate who had expressed a preference for getting to know either modest or proud people. Before subjects were asked to introduce themselves to the target person via a written self-description of their strengths and weaknesses in their self-definitional area (i.e., swimming, tennis, track), they rated their feelings of attraction to the target person. When



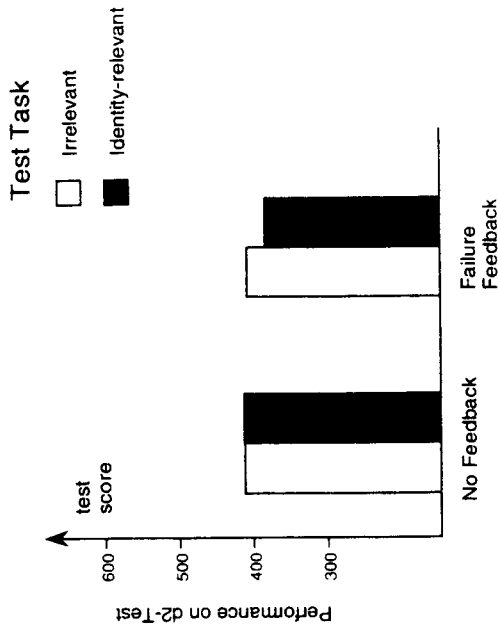
### Identity-relevant Training Task



**Figure 15.1.** Medical students' performance on a mental concentration test (test task) described as either irrelevant or relevant to the identity of physician. Prior to test performance, subjects had received either no performance feedback or failure feedback on a task (training task) either irrelevant or relevant to being a physician (*Source*: Adapted with permission from Brunstein & Gollwitzer, 1996, study 1).

on index cards. The problems were related either to interpersonal conflicts that physicians commonly experience in their profession or to interpersonal problems that anyone might experience in everyday life. Subsequently, subjects were asked to perform a mental concentration test (d2 test; Brickenkamp, 1981) that was described as measuring a skill either relevant or irrelevant to being a physician. Performance on this test task peaked when subjects had been given failure feedback on solving the physician-related interpersonal problems and when the test task was said to measure a physician-related skill. Test performance dropped when subjects with failure feedback on the physician-related interpersonal problems worked on the concentration test described as measuring skills unrelated to being a physician (see Figure 15.1). For the rest of the conditions, test results on the d2 test were in between these two groups and did not differ from each other. These results nicely demonstrate that identity-relevant performances are

### Irrelevant Training Task

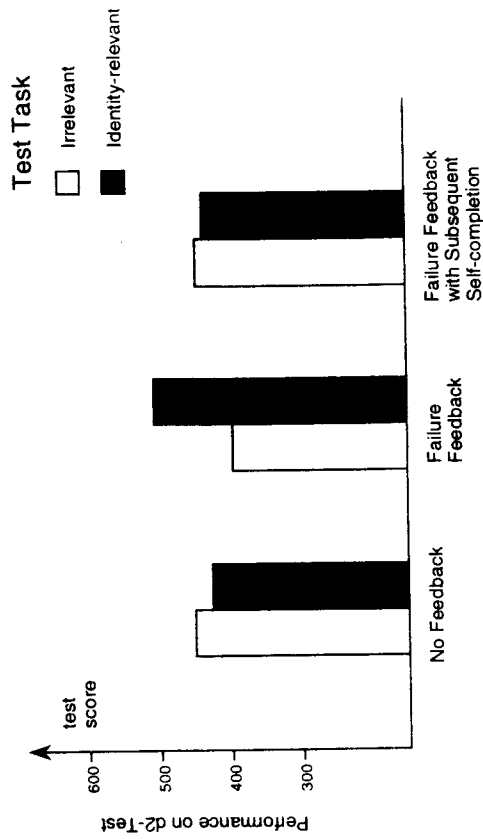


**Figure 15.1.** (cont.)

powerful indicators that an individual possesses the respective identity. When such indicators are absent, individuals feel highly incomplete, which causes them to strive intensively for alternative indicators. When these indicators are not available, individuals become so absorbed with their incompleteness that non-identity-related performances are hampered.

Having demonstrated this, in a second study we investigated whether an incompleteness experience stemming from a weak identity-related performance can also be effectively reduced through self-symbolizing based on positive self-descriptions. In that case, further self-symbolizing in the form of a strong alternative identity-related performance is no longer likely to be necessary. Brunstein and Gollwitzer (1996, study 2) asked students of the computer sciences to perform a concept formation test (Brunstein & Olbrich, 1985) that was said to assess a number of mental skills (e.g., logical reasoning) commonly found in successful computer scientists. Subjects received failure or no feedback on their performance in this training task before they were asked to perform the test task. The d2 test was again used, this time described as measuring a skill either that is irrelevant to a computer scientist (i.e., vigilance in road traffic situations) or relevant (i.e., precision in performing mental tasks). Failure-feedback subjects performed

### Identity-relevant Training Task



**Figure 15.2.** Computer science students' performance on a mental concentration test (test task) described as either irrelevant or relevant to the identity of computer scientist. Prior to test performance, subjects had received either no performance feedback or failure feedback on a training task described as relevant to the identity of computer scientist (*Source:* Adapted with permission from Brunstein & Gollwitzer, 1996, study 2).

better on the d2 test than did no-feedback subjects when the test was described as identity-relevant; a comparatively worse performance was observed when the d2 test was described as irrelevant (see Figure 15.2). This finding is consistent with the observations made in study 1.

After having received feedback on the concept formation test (training task), half of the negative feedback subjects were allowed to describe their personality on a semantic differential type of questionnaire. Before these subjects started to work on the d2 test (test task), they received feedback from a second experimenter who told them that they possessed personality attributes observed in successful computer scientists. This intervention completely wiped out the performance effects of the failure feedback (see Figure 15.2). Whereas no-intervention subjects reduced the experienced incompleteness by stepping up their performance on the d2 test, incomplete subjects who demonstrated the possession of identity personality attributes

to the second experimenter no longer needed to do so. Their feelings of incompleteness were already reduced, so that self-symbolizing in the form of identity-related performances was no longer necessary. This finding implies that performance-related indicators of an identity are mutually exchangeable with indicators that are easily accessible, such as publicly recognized positive self-descriptions. This interpretation is further supported by the observation that the interference effect of incompleteness on the d2 test (i.e., a weakened performance when the test was described as irrelevant) was also alleviated when incomplete subjects learned that they possessed personality attributes conducive to being a successful computer scientist (see Figure 15.2).

### From Incompleteness to Completeness: A Process Account

What do people feel when they experience self-definitional incompleteness? How is this state of incompleteness translated into compensatory efforts that reestablish completeness? In recent studies by Brunstein and Gollwitzer (1996), subjects were asked about their feelings immediately after experiencing failure on the training task and prior to performing the test task. Failure on an identity-relevant training task made subjects feel more worried, pessimistic, dissatisfied, and blocked than failure on an identity-irrelevant training task. However, this frustration and ruminative self-concern over a poor identity-relevant performance transforms into feeling energetic and vigorous when subjects are given a second chance (i.e., a second identity-relevant task is presented as the test task). Whereas incomplete subjects to whom the second task (test task) was described as identity-irrelevant continued to worry and to feel frustrated, this was not true when the second task was described as identity-relevant.

It appears then that incompleteness experiences are highly frustrating and a severe burden to an individual's striving for identity goals. These feelings of being burdened, however, are immediately converted into feeling energized when an opportunity for compensation arises. Obviously, self-symbolizing is an action-oriented state in which no thought is directed at the experienced self-definitional shortcoming. Attention rests solely on successful compensation.

This switch from self-reflection about failure to involvement with self-symbolizing activities is nicely demonstrated in a study by Gollwitzer, Stevenson, and Wicklund (reported in Wicklund & Gollwitzer, 1983). Subjects striving for identity goals were made to feel incomplete and then were offered an opportunity to self-symbolize — either in front of a mirror or not.