

# **ACADEMIC ADVISEMENT AND STUDENT RETENTION: EMPIRICAL CONNECTIONS & SYSTEMIC INTERVENTIONS**

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## ***Purpose and Scope of this Manuscript***

Advising and retention are terms found frequently married in higher education discourse; they seem to fit together like hand and glove. For example, academic advising has been referred to as the “cornerstone of student retention” (Crockett, 1978). While the practice of advising and the outcome of student retention are often connected conceptually, their empirical connection has yet to be carefully documented and systematically synthesized. The primary purpose of this manuscript is to provide such documentation and synthesis. Although a direct, causal connection between advising and retention has yet to be established, a strong case can be made that academic advising exerts a significant impact on student retention through its positive association with, and mediation of, variables that are strongly correlated with student persistence, namely: (1) student satisfaction with the college experience, (2) effective educational and career planning and decision making, (3) student utilization of campus support services, (4) student-faculty contact outside the classroom, and (5) student mentoring.

As Wyckoff (1999) notes, “To establish a high degree of commitment to the academic advising process, university and college administrators must become cognizant not only of the educational value of advising but of the role advising plays in the retention of students” (p. 3). The evidence marshaled in this manuscript may be used as a position paper to persuade high-level administrators of the power of effective academic advisement for student retention and institutional revenue. It may also be used in advisor development programs—to motivate and validate the work of veteran advisors, and in advisor-orientation programs—to inspire and energize new advisors.

The manuscript begins with a discussion of why both student retention and academic advisement deserve immediate attention in American higher education, and it ends with a series of suggested systemic strategies for enhancing the quality and retention-promoting impact of advising programs.

## ***The Case for Attention to Student Retention***

The majority of new students entering higher education leave their initial college of choice without completing a degree (Tinto, 1993), and national attrition rates have been increasing since the early 1980s at two-year and four-year institutions, both public and private (Postsecondary Education Opportunity, 2002). The most critical period or stage of vulnerability for student attrition continues to be the first year of college—at all types of higher education institutions, including highly selective colleges and universities (“Learning Slope,” 1991). More than half of all students who withdraw from college do so during their first year (Consortium for Student Retention Data Exchange, 1999), resulting in a first-year attrition rate of more than 25% at four-year institutions, and approximately 50% at two-year institutions (ACT, 2001).

The economic implications of these alarmingly high rates of attrition for enrollment management was anticipated more than 20 years ago by John Gardner, during the nascent

stages of the freshman-year experience movement he helped launch: “Higher education must make changes if it is to survive in anything resembling its present form. The student has become a precious commodity. Institutions must now concern themselves with retaining students so that, if nothing else, budgets can be preserved” (Gardner, 1981, p. 79). Vince Tinto, a nationally recognized retention scholar, notes further that strengthening institutional efforts aimed at increasing student retention may be a more effective enrollment-management strategy than devoting more resources to increasing student recruitment: “As more institutions have come to utilize sophisticated marketing techniques to recruit students, the value of doing so has diminished markedly. Institutions have come to view the retention of students to degree completion as the only reasonable cause of action left to ensure their survival” (Tinto, 1987, p. 2).

The cost effectiveness of focusing on student retention as an enrollment management strategy is insightfully captured by Alexander Astin, who reminds us that, “In four-year institutions, any change that deters students from dropping out can affect three classes of students at once, whereas any change in recruiting practices can affect only one class in a given year. From this viewpoint, investing resources to prevent dropping out may be more cost effective than applying the same resources to more vigorous recruitment” (1975, p. 2). In fact, cost-benefit analyses of student recruitment efforts, which require substantial institutional expenditures (e.g., hiring of staff, travel funding, and marketing costs), range between \$200-\$800 per student (Kramer, 1982). In contrast, retention initiatives designed to manage student enrollment are estimated to be 3-5 times more cost-effective than recruitment efforts, i.e., 3-5 already enrolled students can be retained at the college for the same cost incurred to recruit one new student to the college (Noel, Levitz, & Saluri, 1985; Rosenberg & Czepiel, 1983; Tinto, 1975). One Canadian university calculates that because of recruitment costs, the college loses \$4,230 for each student who is not retained to the second year (Okanagan University College, cited in Grayson & Grayson, 2003). According to Bean and Hossler (1990), a student who remains with an institution for four years will generate the same income as four new students who leave after one year. For example, at the University of St. Louis, it is estimated that each 1% increase in first-year retention rate generates approximately \$500,000 in revenue by the time these first-year students eventually graduate (Nicholl & Sutton, in Grayson & Grayson, 2003). Another fiscal advantage associated with student retention efforts that effectively promote student persistence to graduation is that graduating students are much less likely to default on their student loans than students who drop out—due, in large measure, to the fact that graduates are more likely to find gainful employment (Seaks, cited in Levitz, 1993).

Most importantly, however, improving student retention not only fulfills the institutionally self-serving function of promoting fiscal solvency, it serves the more altruistic, student-centered purpose of promoting learning and development. As Astin (1975) notes: “More important from an educational standpoint, changes that help students complete college, represent a real service to them, whereas successful recruiting efforts may simply change students’ choice of institutions” (p. 2).

Lastly, it should not be forgotten that student retention is an assessment *outcome*, and one that is amenable to accurate measurement. Furthermore, retention functions as a fundamental or foundational student outcome, serving as a precondition or prerequisite for meaningful assessment of other outcomes. For instance, other commonly assessed

outcomes of college, such as knowledge acquisition, critical thinking, and attitude change, cannot possibly be accurately measured as final outcomes of the college experience unless and until students have persisted to completion of the college experience. Any outcome assessment data collected on students who have graduated from a postsecondary institution where sizable numbers of other students have withdrawn prior to degree completion (e.g., institutional attrition rates of 50% or higher) is, in effect, conducting assessment on an *unrepresentative* sample of students, i.e., these college graduates do not represent the general population of students who matriculated at the college. Using a medical metaphor, if 50% of a school's entering class completes their college experience and displays positive outcomes at graduation and the college concludes that it is doing an effective job, it would be akin to a pharmaceutical company concluding that a newly approved drug was highly successful because it produced positive outcomes for 50% of the patients who completed the drug-treatment plan, while blithely ignoring the fact that one-half of the treated patients failed to complete the treatment plan due to the drug's intolerable side effects and high mortality rate. Thus, it may be argued that any institution seriously interested in outcomes assessment should include student retention as a primary outcome measure, and should use it to make meaningful interpretations of other assessed outcomes.

Lastly, if the ultimate purpose of assessment is institutional improvement, then improvement in student retention should be an intended outcome of any postsecondary institution that is serious about using assessment results as a vehicle for promoting positive institutional change. Given the distressingly high levels of student attrition at many colleges and universities, retention represents a student outcome that can be dramatically improved, not only because there is so much room for improvement, but also because it is influenced as much or more by *institutional* behavior than by student characteristics (e.g., lack of academic motivation or academic underpreparedness). As Tinto (1987) reports:

Though the intentions and commitment with which individuals enter college matter, what goes on after entry matters more. It is the daily interaction of the person with other members of the college in both the formal and informal academic and social domains of the college and the person's perception or evaluation of the character of those interactions that in large measure determine decisions as to staying or leaving. It is in this sense that most departures are voluntary. Student retention is at least as much a function of institutional behavior as it is of student behavior (pp. 127, 177).

### **The Case for Attention to *Academic Advisement***

Academic advising is one of the major academic and social domains of the college experience that affect student decisions about staying or leaving. Findings from national advising surveys, conducted regularly for the past 25 years by American College Testing (ACT), repeatedly point to the following elements as being essential to, but often absent from, academic advisement programs in higher education.

1. Formulation of a program mission statement that clearly articulates the *meaning and purpose* of academic advising.

Only 54% of postsecondary institutions have a written statement that articulates the purposes and procedures of their advising program (Crockett, Habley, & Cowart, 1987). At best, this suggests a lack of clarity about program mission and goals; at worst, it suggests that advising is not considered to be a bona fide educational program with important goals and objectives.

2. Provision of sufficient *incentives, recognition, and reward* for effective academic advising.

Approximately one-half of faculty contracts and collective bargaining agreements make absolutely no mention of advising as a faculty responsibility (Teague & Grites, 1980). Less than one-third of campuses recognize and reward faculty for advising and, among those that do, advising is typically recognized by giving it only minor consideration in faculty promotion and tenure decisions (Habley, 1988). A more recent survey of first-year academic practices at close to 1,000 colleges and universities revealed that only 12% of postsecondary institutions offered incentives or rewards that recognize outstanding advising of first-year students (Policy Center on the First Year of College, 2003).

In a review of national survey data relating to advisor evaluation and rewards, Creamer & Scott (2000) reached the following conclusion: “The failure of most institutions to conduct systematic evaluations of advisors is explained by a number of factors. The most potent reason, however, is probably that the traditional reward structure often blocks the ability to reward faculty who are genuinely committed to advising” (p. 39).

3. Established *criteria* for the *recruitment, selection, and deployment* of academic advisors.

Over two-thirds (68%) of postsecondary institutions surveyed have no criteria for selecting advisors (Crockett, Habley, & Cowart, 1987), suggesting lack of attention to professional preparedness of academic advisors and indifference to the identification of advisors most qualified to work with students who are at risk for attrition—e.g., underprepared and underrepresented first-generation students, or students with special needs—e.g., undecided students, transfer students, commuter students, and re-entry students.

It is also noteworthy (and disturbing) that academic advising effectiveness is almost never mentioned as one of the selection criteria listed in job advertisements or position announcements posted by postsecondary institutions seeking to recruit and hire new faculty.

4. Substantive *orientation, training, and development* of academic advisors.

Only about one-third of college campuses *provide* training for faculty advisors; less than one-quarter *require* faculty training; and the vast majority of institutions offering training programs focus solely on dissemination of factual information, without devoting significant attention to the identification of the goals or objectives of advising, and the development of effective advising strategies or relationship skills (Habley, 1988).

The upshot of the foregoing findings is encapsulated in the following conclusion reached by Habley (2000), based on his review of findings from five national surveys of academic advising: “A recurrent theme, found in all five ACT surveys, is that training,

evaluation, and recognition and reward have been, and continue to be, the weakest links in academic advising throughout the nation. These important institutional practices in support of quality advising are at best unsystematic and at worst nonexistent” (p. 40). This conclusion, based on national surveys, is reinforced by national reports on the status of American higher education. For instance, a blue-ribbon panel of higher education scholars working under the auspices of the National Institute of Education (1984), concluded that, “Advisement is one of the weakest links in the education of college students” (p. 31). Similarly, a national report issued by the Carnegie Foundation, based on three years of campus visits and extensive national survey research, arrived at the following conclusion: “We have found advising to be one of the weakest links in the undergraduate experience. Only about a third of the colleges in our study had a quality advisement program that helped students think carefully about their academic options” (Boyer, 1987, p. 51). More recently, drawing from the results of in-depth interviews with more than 1600 undergraduates over a 10-year period, Light (2001) concluded that, “Good advising may be the single most underestimated characteristic of a successful college experience. During more than ten years of research, I visited more than ninety colleges. Some are highly selective. Some are close to open admissions. Most are in between. They include private and public colleges, large and small, state universities, and junior colleges. Of all the challenges that both faculty and students choose to mention, good advising ranks number one” (pp. 81, 84-85).

### ***Empirical Relationships between Student Advisement and Student Retention***

While there appears to be a long-standing logical link between high-quality advising and high rates of student retention, their empirical connection has yet to be systematically demonstrated. Described below is a series of research findings that provide evidence for an empirical link, albeit indirect, between academic advisement and factors or conditions that are strongly correlated with student retention.

#### ***1. College Satisfaction, Academic Advising, and Student Retention***

There is a well-established empirical relationship between students’ level of *satisfaction* with the postsecondary institution they are attending and their rate of *retention* at that institution (Bean, 1980, 1983; Noel, Levitz, & Saluri, 1985), i.e., college satisfaction is a “primary predictor” of student persistence (Noel & Levitz, 1995). Furthermore, college satisfaction is an assessment outcome that has been found to be the least influenced or confounded by students’ college-entry characteristics—e.g., academic preparedness, educational aspirations, gender, and socioeconomic status (Astin, 1991).

Unfortunately, research on the level of student satisfaction with the quality of academic advisement reveals a pattern of disappointing findings. Astin (1993) reports the results of a national survey in which advising ranked 25<sup>th</sup> among the 27 different types of types of services evaluated by students, with only 40% of the surveyed students indicating that they were either “satisfied” or “very satisfied” with the quality of academic advising they received at their college. In their seminal and influential tome, *Developmental Academic Advising*, Ender, Winston, & Miller (1984) conclude categorically that, “The greatest difficulty students cite with the quality of their academic experiences is advising” (p. 14). Ironically, despite widespread dissatisfaction with

advising, students express a strong desire for advisor contact and place a high value on academic counseling relative to other student services (Wyckoff, 1999).

Given the fact that student satisfaction is a “pure” outcome that is unlikely to be confounded or “contaminated” by students’ personal characteristics, its established association with student retention, plus empirical evidence pointing to low levels of student satisfaction with academic advising in higher education, it is reasonable to conclude that institutional efforts that are intentionally designed to improve student satisfaction with academic advising should serve to improve students’ level of college satisfaction and, in turn, their retention to degree completion.

Empirical evidence for a relationship between student satisfaction with the quality of advising received at their college and their retention at that college is provided by Metzner (1989), who conducted a longitudinal investigation of freshman-to-sophomore retention rates of students enrolled at public university. The study involved a large sample of first-year students and it incorporated a sizable number of influential student variables (e.g., students’ academic preparedness, employment status while in college, college grades, and college satisfaction). Results revealed that students who perceived advising to be of “good quality” withdrew from the university at a rate that was 25% lower than that of students who reported receiving “poor advising,” and they withdrew at a rate that was 40% less than that of students who received no advising at all. Further data analysis revealed that high-quality advising had a statistically significant, indirect effect on student persistence, which was mediated by its positive association with students’ level of college satisfaction and its negative (inverse) association with students’ intent to leave the university.

National surveys of student retention practices provide additional evidence for a link between institutional improvement made in the quality of advising delivered to students and improvement in student retention. For instance, in a national survey of 944 colleges and universities, college administrators identified “inadequate academic advising” as the number-one characteristic linked to student attrition on their campuses; the same administrators reported that “improvement of academic advising services” was the most common retention strategy adopted by their institutions (Beal & Noel, 1980). The effectiveness of this institutional strategy is suggested by other national-survey data indicating that institutions which make improvements in their academic advising programs experience substantial gains in their student retention rates (Cartensen & Silberhorn, 1979).

Consistent with the foregoing survey findings are the on-site observations of Lee Noel, a nationally recognized student-retention scholar and consultant, who reports: “In our extensive work on campuses over the years, [we] have found that institutions where significant improvement in retention rates has been made, almost without exception, give extra attention to careful life planning and to academic advising” (Noel, 1985, p. 13).

More recently, data generated by the National Survey of Student Engagement (NSSE) from 469 institutions revealed that students reporting the highest degree of satisfaction with the quality of their academic advisement were most likely to demonstrate the highest levels of student engagement in college (Kuh, 2002). Since high levels of student engagement (involvement) have been found to be empirically associated with higher rates of student retention (Pascarella & Terenzini, 1991; Tinto, 1993; Astin, 1993), the strong relationship between level of student engagement and quality of academic advisement by

the NSSE data may be interpreted as providing additional evidence of an empirical link between academic advisement and student retention.

## 2. Effective *Educational & Career Planning/Decision-Making*, Academic Advising, and Student Retention

Retention research suggests that student commitment to educational and career goals is perhaps the strongest factor associated with student persistence to degree completion (Wyckoff, 1999). Thus, effective advising can exert appreciable impact on student retention through its salutary influence on students' educational and career planning and decision-making. The need for student support in the academic planning and decision-making process is highlighted by research findings, which indicate that (a) three of every four students are uncertain or tentative about their career choice at college entry (Titley & Titley, 1980; Frost, 1991), (b) only 8% of new students feel they know "a great deal about their intended major" (Lemoine, cited in Erickson & Summers, 1991) (c) over half of all students who enter college with a declared major change their mind at least once before they graduate (Foote, 1980; Gordon, 1984), and (d) only one senior out of three will major in the same field they preferred as a freshman (Willingham, 1985). This degree of student uncertainty and propensity for changing educational plans has been reported at all institutional types, including selective private universities (Marchese, 1992), large research universities ("What We Know About First-Year Students," 1996; What Do I Want to Be," 1997), and small liberal arts colleges ("Alpha Gives Undecided Students a Sense of Identity," 1996).

Such findings strongly suggest that students' final decisions about majors and careers do *not* occur *before* entering college, but typically materialize *during* the college experience. Thus, it is not accurate to assume that students who enter college with "declared" majors are truly "decided" majors; instead, it is more accurate to conclude that 75% of all students entering college are actually undecided about their academic and career plans, and at least half of all declared majors are "prematurely decided" majors, who will eventually change their minds.

Naturally, some of this indecisiveness and changing of direction about majors is healthy, reflecting initial exploration and eventual crystallization of educational goals that naturally accompany personal maturation and increased experience with the college curriculum. It is unrealistic to expect first-year students to make long-term educational commitments until they have gained experience with specific courses and academic programs that comprise the college curriculum, some of which they may have never encountered in high school (e.g., philosophy or anthropology). As Vince Tinto, nationally recognized scholar on student retention, points out:

Among any population of young adults who are just beginning in earnest their search for adult identity, it would be surprising indeed if one found that most were very clear about their long-term goals. The college years are an important growing period in which new social and intellectual experiences are sought as a means of coming to grips with the issue of adult careers. They enter college with the hope that they will be able to formulate for themselves, not for their parents, a meaningful answer to that important question. Lest we forget, the college experience is as much, if not more, one of discovery as one of confirmation (Tinto, 1993, p. 40).

While acknowledging this healthy trial-and-error process of discovery, it is also true that some of the student vacillation underlying the major-changing phenomenon reflects confusion, procrastination, or premature decision-making—due to students’ lack of knowledge about themselves and their compatibility with their initial choice, or lack of knowledge about the relationship between college majors and future careers. Upcraft, Finney, and Garland (1984) also note that some of the confusion about majors and careers may result from, “Students [being] pushed into careers by their families, while others have picked one just to relieve their anxiety about not having a career choice. Still others may have picked popular or lucrative careers, knowing nothing of what they’re really like or what it takes to prepare for them” (p. 18).

The relationship between effective educational decision-making and student retention is empirically documented by Astin (1975), whose research indicates that *prolonged* indecision about an academic major and career goals is correlated with student attrition. Lenning, Beal, and Sauer (1980) also report that students’ goal motivation/commitment correlates positively with persistence to graduation, and this correlation has been found to hold true for both men and women (Anderson, 1988). In addition, Willingham (1985) reports “poor sense of direction” to be one of the most frequently cited reasons identified by students as a factor that detracted from their experiencing a more successful and satisfying college career. In fact, Levitz and Noel (1989) found “lack of certainty about a major and/or career” to be the number-one reason cited by high-ability students for their decision to drop out of college. The implication of these findings for academic advising is suggested by survey data gathered from 947 institutions by Beal and Noel (1980), who found that, “Many students transfer—or sometimes drop out—simply because they do not know that a particular course of study is available at their college, or because they think they cannot have a particular option in their program of studies” (p. 103).

College students clearly need support from effective academic advisors to negotiate the challenging and sometimes confusing process of educational planning and decision-making. As Tinto emphatically states:

It is part of the educational mandate of institutions of higher education to assist maturing youth in coming to grips with the important question of adult careers. The regrettable fact is that some institutions do not see student uncertainty in this light. They prefer to treat it as a deficiency in student development rather than as an expected part of that complex process of personal growth. The implications of such views for policy are not trivial [because] unresolved intentions over an extended period can lead to departure both from the institution and from the higher educational enterprise as a whole. When plans remain unformulated over extended periods of time, students are more likely to depart without completing their degree programs (Tinto, 1993, p. 41).

Viewed collectively, the research reviewed in this section point directly to the conclusion that students need support from knowledgeable academic advisors to engage in effective educational planning and decision-making, and if this support is received, they will more likely persist to degree graduation.

Moreover, if this support is delivered proactively to first-year students, they may make more thoughtful, more accurate, *initial* choices about majors and careers. This may serve

not only to promote student retention, but also reduce the probability of prolonged student indecisiveness and premature decision-making, which can eventuate in changing of majors at later stages in the college experience. Student indecisiveness and late major-changing may result in delayed progress toward degree completion by necessitating the need for students to complete additional courses to fulfill specific degree requirements for their newly chosen major. This may be one factor contributing to the extended length of time it now takes college students to complete their graduation requirements (U.S. Bureau of Census, 1994); for example, the number of students who take five or more years to graduate from college has doubled since the early 1980s (Kramer, 1993). It is reasonable to anticipate that receipt of proactively delivered developmental advising will promote earlier and more complete crystallization of college students' major and career plans, thereby reducing their average time to degree completion.

### 3. *Student Utilization of Campus Support Services and Academic Advising*

One way in which colleges can improve both the academic performance and retention of first-year students is by increasing their utilization of campus support services, because research clearly suggests that there is a positive relationship between utilization of campus-support services and persistence to program or degree completion (Churchill & Iwai, 1981; Pascarella & Terenzini, 1991). In particular, students who seek and receive academic support have been found to improve both their *academic performance* and their *academic self-efficacy*—that is, they develop a greater sense of self-perceived control of academic outcomes, and develop higher self-expectations for future academic success (Smith, Walter, & Hoey, 1992). Higher levels of self-efficacy, in turn, have been found to correlate positively with college students' academic performance and persistence; this is true for Hispanic students in particular (Solberg, O'Brien, Villareal, & Davis, 1993) and underprepared students in general (Lent, Brown, & Larkin, 1987).

Unfortunately, it has also been found that college students *under-utilize* academic support services (Friedlander, 1980; Walter & Smith, 1990), especially those students who are in most need of support (Knapp & Karabenick, 1988; Abrams & Jernigan, 1984). At-risk students, in particular, have trouble recognizing that they are experiencing academic difficulty and are often reluctant to seek help even if they do recognize their difficulty (Levin & Levin, 1991). These findings are especially disturbing when viewed in light of meta-analysis research, which reveals that academic-support programs designed for underprepared students exert a statistically significant effect on their retention and grades when they are utilized, especially if these services are utilized by students during their freshman year (Kulik, Kulik, & Shwalb, 1983).

Taken together, the foregoing set of findings strongly suggests that institutions should deliver academic support *intrusively*—by *initiating* contact with students and aggressively bringing support services *to them*, rather than offering services *passively* and *hoping* that students will come and take advantage of them on their own accord. Academic advisors are in the ideal position to “intrusively” connect students with academic support professionals, who can provide students with timely assistance before their academic performance and persistence are adversely affected by ineffective learning strategies.

Another major way in which advisors may promote student retention is by connecting students to student development services and co-curricular programs. The importance of student involvement in campus life for student retention is documented by findings

demonstrating that students who are more socially integrated or involved in campus life, and feel they are part of the campus community, are more likely to persist to graduation (Terenzini, 1986; Tinto, 1987; Berger & Milem, 1999). Academic advisors are well positioned to promote student persistence by educating students about the value of co-curricular participation and encouraging their involvement with student development services. Roger Winston (1994) argues that this is the way in which developmental advising exerts its greatest impact:

Developmental advising has the greatest impact through supporting and challenging students to take advantage of the multitude of learning opportunities outside of their formal classes and to use the human and programmatic resources designed to promote development of their talents and broaden their cultural awareness. Developmental advising has a multiplier effect that increases students' involvement in institutional programs and services; this positively influences retention for the institution and increases the overall impact of educational experience for students (p. 114).

#### 4. *Student-Faculty Contact Outside the Classroom*, Academic Advising, and Student Retention

In a national report on higher education, the Education Commission of the States included out-of-class contact with faculty as one of its 12 essential attributes of good practice claiming that, "Through such contact, students are able to see faculty members less as experts than as role models for ongoing learning" (1995, p. 8). This assertion is supported by a broad base of research, which demonstrates that student-faculty contact outside the classroom is strongly correlated with student retention (Bean, 1981; Pascarella 1980; Pascarella & Terenzini 1979, Terenzini & Pascarella, 1977, 1978; Pascarella & Terenzini, 1991).

Drawing on data generated by a longitudinal study of 200,000 students at 300 institutions of all types, Astin (1977) reports that, "Student faculty interaction has a stronger relationship to student satisfaction with the college experience than any other variable [and] any student characteristic or institutional characteristic" (p. 223). Consistent with Astin's quantitative findings is the following observation made by Lee Noel (1978), based on his extensive consulting experiences with colleges and universities interested in promoting student retention:

It is increasingly apparent that the most important features of a "staying" environment relate to the instructional faculty. Students make judgments about their academic experience on the basis of such factors as quality of instruction, freedom to contact faculty for consultation, availability of faculty for consultation, and faculty involvement outside the classroom (pp. 96-97).

Vince Tinto offers a similar observation: "Institutions with low rates of student retention are those in which students generally report low rates of student-faculty contact. Conversely, institutions with high rates of retention are most frequently those which are marked by relatively high rates of such interactions" (1987, p. 66).

Tinto (1975) also reports that out-of-class contact between faculty and students has particularly powerful effects on the persistence of students who are "withdrawal prone."

After conducting interviews with especially high-risk students who overcame the odds and succeeded in college, Tinto found that, “*In every case*, the students cited one or two events, when someone on the faculty or—less commonly—the staff had made personal contact with them outside the classroom. That’s what made the difference” (quoted in Levitz, 1990). Pascarella and Terenzini (1979) also found that the frequency of non-classroom contact between students and faculty to discuss academic issues had its most positive influence on the persistence of students with low initial commitment to college, and students whose parents had relatively low levels of formal education.

It is noteworthy that student-faculty interaction outside the classroom has been found to exert a direct effect on student retention that is independent of other potentially influential or confounding variables (e.g., students’ level of involvement with college peers, academic preparedness, or educational aspirations at college entry). As Pascarella (1980) concludes, after critically reviewing and synthesizing a large number of studies investigating the relationship between student-faculty contact and educational outcomes:

The significant associations between student-faculty informal contact and educational outcomes are not merely the result of covariation with individual differences in student entering characteristics or with college experiences in other areas, such as peer culture. Rather, various facets and quality of student informal contact with faculty may make a unique contribution to college impact. In turn this suggests the possibility that colleges and universities may be able to positively influence the extent and quality of student-faculty contact, and thereby faculty impact on students, in ways other than the kinds of students they enroll (pp. 564-565).

Furthermore, the type of student-faculty interaction outside the classroom that has been found to exert the most positive impact on educational outcomes is that which involves discussion of students’ academic interests and career plans (Wilson, 1975; Terenzini, 1986), including the outcome of student retention (Pascarella & Terenzini, 1977).

Given the direct empirical association between student retention and student-faculty contact outside the classroom, particularly when it involves students’ academic and career plans, strongly suggests that academic advisement may be one way that colleges and universities can increase the frequency and quality of student-faculty interaction outside the classroom and, thereby, increase student retention.

It may also be reasonable to predict that high-quality advising will have particularly positive impact on the retention of at-risk (withdrawal-prone) students in particular. In fact, academic advisement may be the institution’s only structure that ensures that students have personal, one-to-one contact with a faculty member. The need to ensure such personal contact is underscored by national survey research conducted by the Carnegie Foundation for the Advancement of Teaching, which reveals a substantial decline in the percentage of undergraduates who agree with the statement, “There are professors at my college whom I feel free to turn to for advice on personal matters” (Boyer, 1987). The implications of this finding for student retention becomes clear when juxtaposed with other research, which indicates that first-year students who can name a college-affiliated person to whom they can turn with a personal problem are more than twice as likely to return to that college for their sophomore year than students who cannot (Levitz & Noel, 1989).

### 5. *Student Mentoring, Academic Advisement, and Student Retention*

The number of colleges offering mentoring programs is on the rise (Haring, 1997), and mentoring is increasingly being viewed as a tool for promoting student retention (Walker & Taub, 2001), particularly the retention of first-year students (Johnson, 1989). Mentoring has the potential to reduce students' feelings of marginality, increasing their sense of personal *significance*—that they “*matter*” (Schlossberg, Lynch, & Chickering, 1989), and can provide an important “validation” experience for first-generation students, for whom the transition to college is not a normal or routine rite of passage (Rendon, 1994).

The importance of mentoring for contemporary college students is well expressed by the indefatigable leader of the first-year experience movement, John Gardner:

Students need mentors and facilitators. They need, in the words of Carl Rogers, authentic professional human beings who are worthy of emulation. They need models who exhibit professional behavior, a sense of commitment and purposefulness, and a sense of autonomy and integrity in a world that generates enormous stress. Students cannot be told how to do this; authenticity cannot be transmitted through lectures” (1981, p. 70).

The availability of exemplary, caring role models is valuable for all students, but may be especially critical to the retention and success of underrepresented, first-generation college students who do not have college role models at home. Vince Tinto notes that, “While role modeling seems to be effective in retention programs generally, it appears to be especially important among those programs concerned with disadvantaged minority students” (1987, p. 161).

Research on mentoring indicates that it has a positive impact on the personal and professional development of young adults (Levinson, 1978). There is also a growing body of research in higher education that suggests an empirical link between student mentoring and student retention (Campbell & Cambell, 1997; Wallace & Abel, 1997). For instance, Miller, Neuner, and Glynn (1988) used an experimental research design in which students were randomly assigned to either an experimental group—who received mentoring, or a control group—who did not. It was found that students who received mentoring evinced higher retention rates than non-mentored students with similar pre-enrollment characteristics.

Despite the retention-promoting promise of mentoring, one of the major logistical stumbling blocks for implementing mentoring programs on a large-scale basis is the fact that mentoring is traditionally delivered via dyadic (1 to 1) relationships, thus making it difficult to find a sufficient number of mentors to sustain a mentoring program that reaches a significant number of students (Redmond, 1990). However, the results of one recent study reveals that “network” mentoring programs, in which multiple students are mentored by one college faculty or staff member, are comparable in effectiveness to traditional “dyadic” (1 to 1) mentoring arrangements—as measured in terms of student satisfaction with the quality of the mentoring relationship and the frequency of contact with their mentor (Walker & Taub, 2001). This finding suggests that traditional academic advisement programs have the potential to co-function as mentoring programs, because a ratio of multiple mentees (students) to one mentor (advisor) may also enable the advantages of mentoring to be realized. While advising and mentoring have been traditionally deemed as distinctly different programs, even a cursory look at some of the criteria cited in the scholarly

literature for effective mentors appear to be very compatible with the characteristics of effective advisors. For example, Johnson (1989) identifies the following characteristics as qualities of effective mentors: (a) more mature than the mentee, (b) interpersonal skill, (c) willingness to commit time, and (d) knowledge of the campus. Certainly, these are qualities that also characterize effective advisors.

Research on the perspective of students, as advisees, repeatedly points to the conclusion that they value most highly academic advisors who serve as mentors—who are accessible, approachable, and helpful in providing guidance that connects their present academic experience with their future life plans (Winston, Ender, & Miller, 1982; Winston, Miller, Ender, Grites, & Associates, 1984; Frost, 1991; Gordon, Habley, & Associates, 2000). Given the similarity of desirable qualities cited for mentors and advisors, in conjunction with the research suggesting that mentoring may be effectively delivered by networking multiple mentees with one mentor, it appears as if the retention-promoting potential of mentoring programs may be achieved as effectively (and more efficiently) through advisement programs, particularly if advisors are well prepared and adequately rewarded for this role. Since advisement focuses on an issue so central to the personal lives of students—the connection between their present collegiate experience with their future life plans—and is delivered by an experienced person who has already navigated a similar course, it appears that mentoring is an integral and inescapable element of academic advisement. As such, advising programs should be viewed and pursued with the same enthusiasm for promoting student retention as mentoring programs.

### **Defining and Describing “Quality” Academic Advising**

Findings reviewed in the previous section point to the conclusion that enhancing the quality of academic advising should improve the rate of student retention. However, any potentially effective attempt to increase student retention through improvement in academic advisement must be guided by a clear vision of what “good” or “quality” advising actually is—because if we cannot define it, we cannot recognize it when we see it, nor can we assess it or improve it. Among the factors that contribute to poor advising, lack of consensus about the role or function of the advisor (Wyckoff, 1999). The following statements, selectively culled from the scholarly literature on academic advising, have the potential to serve as starting points for defining what “quality” academic advisement is, and may serve as focal points for guiding the development of effective advising practices and procedures.

(a) “Developmental academic advising is a systematic process based on a close student-advisor relationship intended to aid students in achieving educational, career, and personal goals through the utilization of the full range of institutional and community resources. It both stimulates and supports students in their quest for an enriched quality of life” (Winston, Miller, Ender, & Grites, & Associates, 1984, p. 538).

(b) “The formation of relationships that assure that at least one educator has close enough contact with each student to assess and influence the quality of that student’s educational experience is realistic only through a systematic process, such as an academic advising program. It is unrealistic to expect each instructor, even with small classes, to form personal relationships of sufficient duration and depth with each student in his or her class to accomplish this” (Winston, Miller, Ender, & Grites, & Associates, 1984, p. 538).

(c) “Developmental academic advising is *not* primarily an administrative function, *not*

obtaining a signature to schedule classes, *not* a conference held once a term, not a paper relationship, *not* supplementary to the educational process, [and] *not* synonymous with faculty member” (Ender, 1983, p. 10).

(d) “Academic advising can be understood best and more easily reconceptualized if the process of academic advising and the scheduling of classes and registration are separated. Class scheduling should no be confused with educational planning. Developmental academic advising becomes a more realistic goal when separated from class scheduling because advising can then go on all during the academic year, not just during the few weeks prior to registration each new term. Advising programs, however, that emphasize registration and record keeping, while neglecting attention to students’ educational and personal experiences in the institution, are missing an excellent opportunity to influence directly and immediately the quality of students’ education and are also highly inefficient, since they are most likely employing highly educated (expensive) personnel who are performing essentially clerical tasks” (Winston, Miller, Ender, & Grites, & Associates, 1984, p. 542).

(e) “Students may enter the advising process with a set of perceptions and expectations quite unrelated to those of the advisor. The importance of the interpersonal relationship for students should not be underestimated (Wyckoff, 1999, p. 3).”

From the *students’* perspective, previously cited research points to the conclusion that undergraduates value most highly academic advisors who function as *mentors* or *counselors*, and who are: (a) *available/accessible*, (b) *knowledgeable/helpful*, and (c) *personable/approachable*. Integrating the perspectives of both student advisees and advising scholars, high-quality academic advisement may be distilled into, and defined in terms of, three key (“core”) advisor roles or functions.

#### 1. Advisor as *humanizing* agent:

An advisor is someone who interacts with students outside the classroom on a less formal, more frequent, and more continuous basis than course instructors. Students’ instructors will vary from term to term, but an academic advisor may be the one institutional representative with whom each student can have *continuous contact* and a *stable, ongoing relationship* that may endure *throughout* the college experience. Thus, an advisor is uniquely positioned to develop a *personal relationship* with students and to serve as a humanizing agent—someone whom students feel comfortable seeking out, who knows them by name, who knows their individual interests, aptitudes, and values, and who takes special interest in their personal experiences, progress, and development.

#### 2. Advisor as *counseling/mentoring* agent:

An advisor is an *experienced guide* who helps students navigate the bureaucratic maze of institutional policies and administrative protocol, and a *referral agent* who directs and connects students to campus support services that best serve their needs. An advisor is also a *confidante* to whom students can turn for advice, counsel, guidance, or encouragement; who listens to them actively, empathically, and non-judgmentally; who allows them to freely explore their personal values and belief systems; and who serves as a *student advocate*—treating them as clients to be served and developed—rather than as subordinates to be evaluated and graded.

### 3. Advisor as *educational/instructional* agent:

An advisor is someone who can equip students with specific strategies for success, and who can bring integration and coherence to the students' college experience—by promoting their appreciation of the college *mission*, the college *curriculum* (e.g., the purpose of general education), and the *co-curriculum* (e.g., the educational value of experiential learning outside the classroom).

An advisor is also someone who, through effective questioning and dialogic techniques conducted in a personalized context, helps students become more self-aware of their distinctive interests, talents, values, and priorities; who enables students to see the “connection” between their present academic experience and their future life plans; who helps students discover their potential, purpose, and passion; who broadens students' perspectives with respect to their personal life choices, and sharpens their cognitive skills for making these choices, such as effective problem-solving, critical thinking, and reflective decision-making.

### **Systemic Strategies for Enhancing the Quality of Academic Advising**

The above-cited qualities paint a picture of the ideal advisor in an ideal advising scenario. In order for the present reality of academic advisement in higher education to begin to approach this ideal state, several systemic changes need to take place in the way most advising programs are presently designed and delivered. Aforementioned findings from national surveys and national reports strongly suggest that academic advisement programs in higher education are not presently well positioned to deliver high-quality developmental advising. Thus, it appears as if academic advising at many institutions needs systematic and systemic overhaul before it can be expected to approach a level of program quality that exerts dramatic impact on student retention. To this end, the following systemic strategies are offered as major fulcrums for leveraging positive change in the quality and retention-promoting impact of academic advisement.

#### 1. Provide strong *incentives* and *rewards* for advisors to engage in high-quality advising.

Advising runs the risk of being perceived as a supplemental, low-status, and low-priority activity by college faculty because it typically does not carry the same professorial status and resume-building value as conducting research, acquiring grants, presenting papers at a professional conference, or engaging in off-campus consulting. Even at postsecondary institutions that do not place a high priority on research and publication, classroom teaching is typically valued more highly than academic advising. Without any incentives to pursue excellence, it seems unlikely that advisors will be motivated to invest the time and energy needed to improve the quality of their work.

Faculty have only a finite amount of time available to them to perform their three primary professional responsibilities: teaching, research, and service. Given increasing expectations for faculty to publish at many colleges and universities (Kuh, Schuh, Whitt, & Associates, 1991), while maintaining their traditional teaching loads, it is reasonable to expect that the degree of faculty commitment to academic advisement will be severely compromised by institutional reward systems that place greater value on competing professional priorities.

Before we can expect to see substantive improvement in the quality of advising received by undergraduate students, and concomitant improvement in their retention

rates, higher education administrators must begin to intentionally and creatively redesign traditional reward systems to place higher value on academic advisement as a professional responsibility. For example, professional workloads could be intentionally reconfigured and funds reallocated to allow faculty sufficient time to engage in true *developmental* advising—as opposed to perfunctory course scheduling. Academic advising could be redefined as a bona fide *instructional* activity and, as such, might be counted as equivalent to the teaching of one course in a faculty member’s workload. If advising were redefined and elevated to the status of college teaching, it may even be possible to allow faculty with historically poor records of advising performance the option of substituting an additional course in their teaching load, in lieu of advising. This policy might serve to increase the likelihood that faculty who do advise are those who possess a genuine interest in and commitment to delivering high-quality advising.

Faculty research and scholarship could be more broadly defined to include research on the advising process, and such scholarship could be counted in decisions about promotion and tenure in a fashion similar to discipline-driven research. Such an expanded view of scholarship would be consistent with the late Ernest Boyer’s call for a “new scholarship” that would include the scholarship of “teaching” and the scholarship of “application” (Boyer, 1991). Also, professional (non-faculty) advisors might be given the opportunity to advance in rank from assistant to associate to full (tenured) status—based on the quality of their advising and advising scholarship—just as faculty have been traditionally promoted on the basis of their teaching and research.

Research on factors that promote faculty change toward student-centered professional activities indicates that two of the most common barriers to the change process are the influence of educational tradition and limited incentives for faculty to change (Bonwell & Eison, 1991). For high-quality advising to become a reality, advisors need (a) to know that the institution considers advising to be a high-priority professional activity that is equivalent in value to classroom instruction or research publication, (b) be given the time to do it, and (c) to know that the time they do devote to it is actually counted and seriously weighed in decisions about their professional rank, promotion, and tenure.

## 2. Strengthen advisor *orientation, training, and development*, and deliver them as essential components of the institution’s *faculty/staff development program*.

National reports calling for improvement in the quality of undergraduate education have repeatedly emphasized the need for instructional development of faculty, because graduate school typically does not prepare them for college teaching (National Institute of Education, 1984; Association of American Colleges, 1985; Wingspread Group, 1993). The very same case could be made for college advising, because faculty are the most prevalent advisors at all types of colleges and universities (Lareau, 1996), yet the importance of professional development for academic advisors has been given short shrift by national reports calling for higher educational reform. In fact, it is probably safe to say that advising is the professional role for which faculty are *least* prepared to perform. Undoubtedly, faculty receive even less preparation for academic advising during their graduate school experience than they do for undergraduate teaching. (For instance, there are no “advising assistantships” in graduate school, as there are teaching assistantships.) Lack of advisor preparation *before* entering the professoriate is subsequently compounded by the lack of substantive professional development programs for faculty

advisors after they *enter* the professoriate. Recent national survey results obtained from a sample of approximately 1000 postsecondary institutions indicate that only 55% of American colleges and universities provide any type of preparation or training for advisors of first-year students (Policy Center on the First Year of College, 2003). The dire need for better advisor training to realize the goal of developmental academic advising is well articulated by Ender (1994):

Faculty are, for the most part, powerless to implement developmental advising without adequate training. To be an effective developmental advisor requires skills, competencies, and knowledge beyond any given academic discipline. Improving communication, building relationships, setting goals, and enhancing knowledge of campus and community resources are but a few examples of training areas to which faculty and other advisor need exposure (p. 106).

Redressing the underpreparedness of faculty advisors requires systematic design and delivery of intensive and extensive professional development programs. This should be more substantive than the common practice of reducing advisor development to an advising “training” program that begins and ends with a one-shot, immersion orientation session for new advisors. Orientation needs to be augmented by professional development seminars and workshops delivered *in person*, and supplemented by advisor support delivered *in print*—in the form of a carefully constructed and regularly updated “advising handbook.” A comprehensive advisor handbook should include: (a) current *curricular* information (e.g., up-to-date information on course requirements, sequences, and prerequisites); (b) current information relating to academic *policies and procedures* (e.g., procedures for adding/dropping classes and petitioning for an incomplete or changed grade); (c) student *self-help and self-management* strategies (e.g., strategies for learning and time management); (d) names, phone numbers, and office hours of key *campus- and community-support services* (e.g., learning assistance center, career development center, personal counseling center, local service-learning opportunities); and (e) strategies for engaging effectively in the *process of developmental advising* (e.g., student-referral strategies, and concrete advisor behaviors or practices that effectively implement developmental advising).

Research reviewed by Wyckoff (1999) indicates that advisor preparation and training has a demonstrable impact on student retention, as evidenced by lower attrition rates for students whose advisors received training in advising techniques—relative to students whose advisors were untrained.

### 3. *Assess and evaluate* the quality of academic advisement.

Regular assessment of academic advisement sends a clear message to advisors that student advising is an important professional responsibility and increases the likelihood that weaknesses in the advising program are identified and corrected. Conversely, failure to monitor and evaluate the quality of advising tacitly communicates the message that it is a student service which is not valued by the institution. As Linda Darling-Hammond, higher education research specialist for the Rand Corporation, points out: “If there’s one thing social science research has found consistently and unambiguously . . . it’s that people will do more of whatever they are evaluated on doing. What is measured will

increase, and what is not measured will decrease. That's why assessment is such a powerful activity. It cannot only measure, but change reality" (quoted in Hutchings & Marchese, 1990). Thus, the mere fact that advisors are aware that their advising is being assessed may, in itself, lead to improvement in the quality of academic advisement they deliver.

Assessment should reflect the perspectives of advisors, as well as students. Advisors should be given the opportunity to assess the quality of *administrative support* they receive for advising—for example, the effectiveness of orientation, training, and development they received, the usefulness of support materials or technological tools provided for them, the viability of their advisee case load, and the effectiveness of advising administrative policies and procedures. National survey research of first-year student advising practices indicates that only 11% of postsecondary institutions involve advisors as evaluators in the assessment process (Policy Center on the First Year of College, 2003). This is a disappointing finding, because involving advisors in the assessment process can serve two very valuable purposes: (a) provides front-line feedback to the advising program director that can be used for program improvement, and (b) enables advisors to become active agents (rather than passive recipients) of evaluation, which serves to increase their personal investment in, and "ownership" of, the advisement program.

Advisors can also become more active agents in the assessment process if they engage in *self-assessment*. This could be done in narrative form, perhaps as part of an advising portfolio, which would include (a) a personal statement of advising philosophy, (b) advising strategies employed, (c) advisor development activities, (d) self-constructed advising materials (e.g., an advising syllabus), and (e) responses to student evaluations. This type of advisor self-assessment could also be used as evidence of advising quality and counted in decisions about promotion and advancement in rank, comparable to how the "teaching portfolio" is used in faculty evaluation of instructional effectiveness.

#### 4. Maintain *advisee-to-advisor ratios* that are *small* enough to enable delivery of *personalized* advising.

Existing advisee:advisor ratios at many colleges and universities are from being conducive to the formation of a personal relationship between student and advisor, which is the foundation for effective developmental advising. As Winston (1994) notes: "Unfortunately, on many campuses today (especially at public four-year institutions) advising centers have student-advisor ratios in the hundreds and these ratios are growing. With such workloads, developmental advising is impossible, no matter what the philosophy or skills of the advisors" (p. 113).

The same can be said for many public community colleges. In the California community colleges, for example, the average student/advisor ratio is about 600:1 (Pam Schachter, personal communication, December 12, 2002). Advising sessions are not typically scheduled by personal appointment, and they are not conducted in a private office setting; instead, they take place in a large, impersonal center on a drop-by basis, which often results in the same student seeing a different advisor each time she "drops by."

One way to begin the process of reducing student/advisor ratios to a level that allows for personalized advising is to increase the number of advisors deployed. This could be

accomplished in a cost-effective manner that would not require hiring of additional personnel, if academic advisement were to be conceptualized as a shared responsibility assumed by multiple members of the college community, namely: faculty, professional staff, administrators, student paraprofessionals (trained peers), graduate students, and possibly retired faculty or staff. If such a team or community approach to advising were adopted, then student:advisor ratios might be reduced to more manageable levels—ideally, to a level at which each and every student has a personally assigned advisor, and all advisors have case loads small enough to allow them to provide individualized attention and personalized advising to each one of their advisees.

5. Provide strong *incentives* for *students to meet regularly* with their advisors.

At some 4-year colleges, and most community colleges, students can register for classes without ever seeing an academic advisor (e.g., via electronic or telephonic registration). Leaving students on their own to design an educational plan and to select courses relevant to that plan, means that students completely bypass the advising process, along with its retention-promoting potential. This is an especially risky procedure to employ at any college or university, but especially at community colleges, which (a) offer a complex array of multi-purpose courses designed to fulfill multiple missions (e.g., transfer-track courses, technical-vocational track courses, personal enrichment courses), and (b) are open-admission institutions that attract higher proportions of first-generation college students, students with diverse educational goals and intentions, and students with diverse levels of academic preparedness. While the practice of registration without advisement may be consistent with the community colleges' historic goal of promoting college *access*, it may be simultaneously inconsistent with the goal of promoting college *success*—because receipt of absolutely no advising (or even informal advice) militates against their prospects for retention to program or degree completion. (Such a shortsighted focus on promoting student recruitment without attention to subsequent retention is reinforced by state funding practices that annually reward postsecondary institutions for the total number of students enrolled [FTEs], but which provide no fiscal incentive or reward for retaining and advancing those students who do enroll.)

Requiring an advisor's signature as a pre-requisite or pre-condition for course registration, as well as for dropping or adding classes once the academic term has begun, provides a strong incentive for students to connect with their advisors, and should serve to promote their retention by (a) enhancing the quality of students' educational planning and decision making, and by (b) increasing student contact with faculty and staff outside the classroom.

Strong incentives should also be provided for students to meet with advisors at times other than the hurried and harried period of course registration, i.e., at times when advisors have time to interact with students as persons—rather than “process” them as registrants, and when advisors have the opportunity to explore or clarify students' broader, long-term educational plans—rather than focusing narrowly, myopically, and episodically on the imminent, deadline-driven task of class scheduling.

One promising *curricular* vehicle through which advisors may be given the opportunity to engage their advisees in meaningful long-range educational planning is the first-year seminar. Presently, 20% of institutions offering first-year seminars have arranged for students to be placed into sections of the course that are taught by their academic advisors

(National Resource Center for the First-Year Experience, 2003), thus ensuring regular advisor-advisee contact during the critical first term of college. Other institutions have built assignments into the first-year seminar that require students to meet with their academic advisors to engage in long-term educational planning and decision-making (Cuseo, in press).

6. Identify *highly effective advisors* and “*front load*” them—i.e., position them at the front (start) of the college experience to work with first-year students, particularly first-year students who may be “at risk” for attrition.

Research indicates that at least one-half of all students who drop out of college will do so during their freshman year (Consortium for Student Retention Data Exchange, 1999). According to Lee Noel (1985), “The critical time in establishing the kind of one-to-one contacts between students and their teachers and advisers that contribute to student success and satisfaction occur during the first few weeks of the freshman year” (p. 20). Support for this observation is provided by the National Institute of Education’s (1984) landmark report on the quality of undergraduate education in America. Its panel of distinguished scholars’ first recommendation for improving undergraduate education was “front loading”, which they define as the reallocation of faculty and other institutional resources to better serve entering students.

John Gardner suggests that front-loaded support for first-year students during their early weeks on campus works like the marketing concept of “second sale,” whereby the college helps students overcome “buyers remorse” and make a long-term commitment to remain at the institution (Gardner, 1986, p. 267). High-quality advising during the first-semester of college may be one way to promote long-term student commitment and retention. The importance of quality first-year advisement for the retention of African-American students, in particular, is empirically supported by research indicating that the frequency of personal contacts between black freshmen and their academic advisors is the variable that is most strongly associated with retention through the critical freshman year; furthermore, frequency of student-advisor contact is significantly higher if the first contact occurs *early* in the freshman year (Trippi & Gheatham, 1989).

7. Include *advising effectiveness* as one *criterion* for *recruiting and selecting* new faculty.

Beal and Noel (1980) surveyed 947 colleges and universities, asking administrative officials involved with student retention the following question: “What makes students stay?” Ranking first in response to this question was “a caring faculty and staff.” As Tinto (1987) expresses it, “Students are more likely to become committed to the institution and, therefore stay, when they come to understand that the institution is committed to them. There is no ready programmatic substitute for this sort of commitment. Programs cannot replace the absence of high quality, caring and concerned faculty and staff” (p. 176).

It may not be easy to “train” people to develop these altruistic characteristics; more realistically, individuals with these qualities need to be *found*. The harvesting of caring, concerned, and committed faculty and staff begins with careful attention to these qualities during the recruitment and selection process. College position announcements should publicly and explicitly state that academic advising is an important component of the

position, and candidates' written applications and personal interviews should be scrutinized for signs of a "caring" disposition, and for a demonstrated interest in and commitment to student advising.

### **Summary and Conclusion**

Research reviewed in this manuscript strongly suggests that there is much need for, and room for, improvement in the quality of academic advisement and the rate of student retention in higher education. The research also suggests that improvement in the former is associated with improvement in the latter. However, to promote extensive and enduring gains in student retention, academic advisement programs need to undergo systemic change at four foundational levels: (a) recruitment and selection of advisors, (b) preparation and development of advisors, (c) recognition and reward for advisors, and (d) advisor assessment and program evaluation. As Habley and Crockett conclude from national surveys of academic advising practices: "Training, accountability, evaluation, and recognition/reward are the cornerstones of performance in every field or job. Yet those continue to be stumbling blocks in most advising programs" (1988, p. 68). These four elements are also the cornerstones and building blocks that undergird construction of any high-quality advising program. Only when sufficient institutional attention and resources are devoted to securing each of these foundational features of program development will the quest for quality academic advisement be successful, and its potential for promoting student retention be fulfilled. Moreover, if state-funding policies are reexamined and revamped to reward public institutions with fiscal resources that are based on student retention or persistence to graduation (The Education Trust, 2003), rather than simply on total enrollment or headcount, then greater institutional attention to and support for academic advisement will likely follow.

## References

- Abrams, H., & Jernigan, L. (1984). Academic support services and the success of high-risk students. *American Educational Research Journal*, 21, 261-274.
- ACT (2001, February). "National college dropout and graduation rates, 1999." [<http://www.act.org/news>].
- "Alpha Gives Undecided Students a Sense of Identity" (1996). In M. L. Santovec, *Making more changes: Editor's choice* (pp. 88-90). Madison, WI: Magna Publications.
- Anderson, K. L. (1988). The impact of colleges and the involvement of male and female students. *Sociology of Education*, 61, 160-177.
- Association of American Colleges (1985). *Integrity in the curriculum: A report to the academic community: Project on redefining the meaning and purpose of baccalaureate degrees*. Washington, DC: Author.
- Astin, A. W. (1975). *Preventing students from dropping out*. San Francisco: Jossey-Bass.
- Astin, A. W. (1977). *Four critical years: Effect of college on beliefs, attitudes, and knowledge*. San Francisco: Jossey-Bass.
- Astin, A. W. (1991). *Assessment for excellence: The philosophy and practice of assessment and evaluation in higher education*. New York: Macmillan.
- Astin, A. W. (1993). *What matters in college*. San Francisco: Jossey-Bass.
- Beal, P. E., & Noel, L. (1980). *What works in student retention*. Iowa City, Iowa: American College Testing Program.
- Bean, J. (1980). Dropouts and turnover: The synthesis and a test of a causal model of student attrition. *Research in Higher Education*, 12, 155-187.
- Bean, J. (1981). *The synthesis of a theoretical model of student attrition*. Paper presented at the 1981 meeting of the American Educational Research Association. Los Angeles, California.
- Bean, J. (1983). The application of a model of turnover in work organizations to the student attrition process. *The Review of Higher Education*, 6, 129-148.
- Bean, J., & Hossler, D. (1990). *The strategic management of college enrollments*. San Francisco: Jossey-Bass.
- Berger, J. B., & Milem, J. F. (1999). The role of student involvement and perceptions of

- integration in a causal model of student persistence. *Research in Higher Education*, 40(6), 641-664.
- Bonwell, C. C., & Eison, J. A. (1991). *Active learning: Creating excitement in the classroom*. ASHE-ERIC Higher Education Report No 1. Washington, DC: The George Washington University School of Education and Human Development.
- Boyer, E. L. (1987). *College: The undergraduate experience in America*. New York: Harper & Row.
- Boyer, E. L. (1991). *Scholarship reconsidered: Priorities of the professoriate*. Princeton, NJ: Carnegie Foundation for the Advancement of Teaching.
- Campbell, T. A., & Campbell, D. E. (1997, December). Faculty/student mentor program: Effects on academic performance and retention. *Research in Higher Education*, 38, 727-742.
- Cartensen, D. J., & Silberhorn, C. A. (1979). *A national survey of academic advising, final report*. Iowa City, Iowa: American College Testing.
- Churchill, W. D., & Iwai, S. I. (1981). College attrition, student use of campus facilities, and a consideration of self-reported personal problems. *Research in Higher Education* 14(4), 353-365.
- Consortium for Student Retention Data Exchange (1999). *Executive summary 1998-1999 CSRDE report: The retention and graduation rates in 269 colleges and universities*. Norman, OK: Center for Institutional Data Exchange and Analysis, University of Oklahoma.
- Creamer, E. C., & Scott, D. W. (2000). Assessing individual advisor effectiveness. In V. N. Gordon, W. R. Habley, & Associates, *Academic advising: A comprehensive handbook* (pp. 339-348). San Francisco: Jossey-Bass.
- Crockett, D. S. (1978). *Academic advising: A cornerstone of student retention*. In L. Noel (Ed.), *Reducing the dropout rate*. San Francisco: Jossey-Bass.
- Crockett, D. S., Habley, W. R., & Cowart S.C. (1987). *The ACT national survey of academic advising: Preliminary report*. Iowa City: IA: American College Testing Program.
- Cuseo, J. (in press). Comprehensive academic support for students during the first-year year of college. In G. L. Kramer (Ed.), *Student academic services: A comprehensive handbook for the 21<sup>st</sup> century*. San Francisco: Jossey-Bass.
- Education Commission of the States (1995). *Making quality count in undergraduate education*. Denver, CO: ECS Distribution Center.

- Ender, S. C. (1983). Assisting high academic-risk athletes: Recommendations for the academic advisor. *NACADA Journal* (October), 1-10.
- Ender, S. C. (1994). Impediments to developmental advising. *NACADA Journal*, 14(2), 105-107.
- Ender, S. C., Winston, R. B., Jr., & Miller, T. K. (1984). Academic advising reconsidered. In R. B. Winston, Jr., T. K. Miller, S. C. Ender, T. G. Grites, & Associates, *Developmental academic advising* (pp. 3-34). San Francisco: Jossey-Bass.
- Erickson, B. L. & Sommers, D. W. (1991). *Teaching college freshmen*. San Francisco: Jossey-Bass.
- Foote, B. (1980). Determined- and undetermined-major students: How different are they? *Journal of College Student Personnel*, 21(1), 29-34.
- Friedlander, J. (1980). Are college support programs and services reaching high-risk students? *Journal of College Student Personnel*, 21(1), 23-28.
- Frost, S. H. (1991). *Academic advising for student success: A system of shared responsibility*. ASHE-ERIC Higher Education Report No. 3. The George Washington School of Education and Human Development, Washington DC.
- Gardner, J. (1981). Developing faculty as facilitators and mentors. In V. A. Harren, M. N. Daniels, & J. N. Buck (Eds.), *Facilitating students' career development* (pp. 67-80) *New Directions for Student Services*, No. 14. San Francisco: Jossey-Bass.
- Gardner, J. N. (1986). The freshman year experience. *College and University*, 61(4), 261-274.
- Gordon, V. N. (1984). *The undecided college student: An academic and career advising challenge*. Springfield, Illinois: Thomas.
- Gordon, V. N., Habley, W. R., & Associates (2000). *Academic advising: A comprehensive handbook*. San Francisco: Jossey-Bass.
- Grayson, J. P., & Grayson, K. (2003). *Research on retention and attrition*. Montreal, Canada: The Canada Millennium Scholarship Foundation.
- Habley, W. R., (1988). The third ACT national survey of academic advising. In W. H. Habley (Ed.), *The status and future of academic advising: Problems and promise*. ACT National Center for the Advancement of Educational Priorities.
- Habley, W. R. (2000). Current practices in academic advising. In V. N. Gordon, W. R. Habley, & Associates, *Academic advising: A comprehensive handbook* (pp. 35-43).

San Francisco: Jossey-Bass.

- Habley, W. R., & Crockett, D. S. (1988). The third ACT national survey of academic advising. In W. H. Habley (Ed.), *The status and future of academic advising: Problems and promise*. ACT National Center for the Advancement of Educational Priorities.
- Haring, M. J. (1997). Networking mentoring as a preferred model for guiding programs for underrepresented students. In H. T. Frierson, Jr. (Ed.), *Diversity in higher education* (pp. 63-76). Greenwich, CT: JAI Press.
- Hutchings, P., & Marchese, T. (1990). Watching assessment—questions, stories, prospects. *Change*, 22(5), pp. 12-43.
- Johnson, C. S. (1989). Mentoring programs. In M. L. Upcraft & J. N. Gardner (Eds.), *The freshman year experience* (pp. 118-128). San Francisco: Jossey-Bass.
- Knapp, J. R., & Karabenick, S. A. (1988). Incidence of formal and informal academic help-seeking in higher education. *Journal of College Student Development*, 29(3), 223-227.
- Kramer, M. (1982). *Meeting student aid needs in a period of retrenchment*. San Francisco: Jossey-Bass.
- Kramer, M. (1993). Lengthening of time to degree. *Change*, 25(3), pp. 5-7.
- Kuh, G. (2002, February). Student engagement in the first year of college. Plenary address delivered at the Annual Conference on The First-Year Experience, Orlando, FL.
- Kuh, G., Schuh, J., Whitt, E., & Associates (1991). *Involving colleges*. San Francisco: Jossey-Bass.
- Kulik, C., Kulik, J., & Shwalb, B. (1983). College programs for high-risk and disadvantaged students: A meta-analysis of findings. *Review of Educational Research*, 53, 397-414.
- Lareau, G. (1996). *Critical issues in academic advising survey: Training and development practices*. <<http://www.nacada.ksu.edu/newsleter/jan98.htm>>
- “Learning Slope.” (1991). *Policy Perspectives*, 4(1), pp. 1A-8A. Pew Higher Education Research Program.
- Lenning, O. T., Beal, P. E. & Sauer, K. (1980). *Retention and attrition: Evidence for actions and research*. Boulder, CO: National Center for Higher Education Management Systems.

- Lent, R. W., Brown, S. D., & Larkin, K. C. (1987). Comparison of three theoretically derived variables in predicting career and academic behavior: Self-efficacy, interest congruence, and consequence thinking. *Journal of Counseling Psychology, 34*, 293-298.
- Levin, M., & Levin, J. (1991). A critical examination of academic retention programs for at-risk minority college students. *Journal of College Student Development, 32*, 323-334.
- Levinson, D. J. (1978). *The seasons of a man's life*. New York: Knopf.
- Levitz, R. (1990). Sizing up retention programs. *Recruitment and Retention in Higher Education, 4*(9), pp. 4-5.
- Levitz, R. (1993). Retention is dollar-wise. *Recruitment and Retention Newsletter, 7*(1), p. 4.
- Levitz, R. & Noel, L. (1989). Connecting students to institutions: Keys to retention and success. In M. L. Upcraft, J. N. Gardner, & Associates, *The freshman year experience* (pp. 65-81). San Francisco: Jossey-Bass.
- Light, R. J. (2001). *Making the most of college: Students speak their minds*. Cambridge, Mass.: Harvard University Press.
- Marchese, T. (1992). Assessing learning at Harvard: An interview with Richard J. Light. *AAHE Bulletin, 44*(6), pp. 3-7.
- Metzner, B. S. (1989). Perceived quality of academic advising: The effect on freshman attrition. *American Educational Research Journal, 26*(3), 422-442.
- Miller, T. E., Neuner, J. L., & Glynn, J. (1988). Reducing attrition: A college at work in research and practice. *NASPA Journal, 25*(4), 236-243.
- National Institute of Education (1984). *Involvement in learning*. Study Group on the Conditions of Excellence in Higher Education. Washington, D.C.: Author.
- National Resource Center for the First-Year Experience. (2002). *2000 survey of first-year seminar programming: Continuing innovations in the collegiate curriculum* (Monograph No. 35). Columbia, SC: University of South Carolina, National Resource Center for The First-Year Experience and Students in Transition.
- Noel, L. (1978). First steps in starting a campus retention program. In L. Noel (Ed.), *Reducing the dropout rate* (pp. 87-98). New Directions for Student Services, No. 3. San Francisco: Jossey-Bass.

- Noel, L. (1985). Increasing student retention: New challenges and potential. In L. Noel, R. Levitz, & D. Saluri (Eds.), *Increasing student retention* (pp. 1-27). San Francisco: Jossey-Bass.
- Noel, L. & Levitz, R. (1995). New strategies for difficult times. *Recruitment & Retention in Higher Education*, 9(7), pp. 4-7.
- Noel, L., & Levitz, R., & Saluri, D. (Eds.) (1985). *Increasing student retention: New challenges and potential*. San Francisco: Jossey-Bass.
- Pascarella, E. T. (1980). Student-faculty informal contact and college outcomes. *Review of Educational Research*, 50, 545- 595.
- Pascarella, E. T., & Terenzini, P. (1977). Patterns of student-faculty informal interaction beyond the classroom and voluntary freshman attrition. *Journal of Higher Education*, 48, 540-552.
- Pascarella, E. T., & Terenzini, P. (1979). Interaction effects in Spady's and Tinto's conceptual models of college drop out. *Sociology of Education*, 52, 197-210.
- Pascarella, E. T. & Terenzini, P. T. (1991). *How college affects students: Findings and insights from twenty years of research*. San Francisco: Jossey-Bass.
- Policy Center on the First Year of College (2003). *Second National Survey of First-Year Academic Practices, 2002*. Retrieved January 18, 2003 from <http://www.brevard.edu/fyc/survey2002/findings.htm>
- Postsecondary Education Opportunity (2002). Institutional graduation rates by control, academic selectivity and degree level, 1983-2002. *The Environmental Scanning Research Letter of Opportunity for Postsecondary Education*, (March), pp. 1-16.
- Redmond, S. P. (1990). Mentoring and cultural diversity in academic settings. *American Behavioral Scientist*, 34, 188-200.
- Rendon, L. I. (1994). Validating culturally diverse students: Toward a new model of learning and student development. *Innovative Higher Education*, 19(1), 23-32.
- Rosenberg, L. J., & Czepiel, J. Z. (1983). A marketing approach for customer retention. *The Journal of Consumer Marketing*, 1, 45-51.
- Schlossberg, N. K., Lynch, A. Q., & Chickering, A. W. (1989). *Improving higher education environments for adults: Responsive programs and services from entry to departure*. San Francisco: Jossey-Bass.
- Smith, J. B., Walter, T. L., & Hoey G. (1992). Support programs and student self-

- efficacy: Do first-year students know when they need help? *Journal of The Freshman Year Experience*, 4(2), 41-67.
- Solberg, V. S., O'Brien P., Villareal R., & Davis, B. (1993). Self-efficacy and Hispanic college students: Validation of the college self-efficacy instrument. *Hispanic Journal of Behavioral Sciences*, 15(1), 80-95.
- Teague, G. V., & Grites, T. J. (1980). Faculty contracts and academic advising. *Journal of College Student Personnel*, 21, 40-44.
- Terenzini, P. T. (1986). *Retention research: Academic and social fit*. Paper presented at the annual meeting of the Southern Regional Office of the College Entrance Examination Board, New Orleans, LA.
- Terenzini, P. T., & Pascarella, E. T. (1977). Voluntary freshman attrition and patterns of social and academic integration in a university: A test of a conceptual model. *Research in Higher Education*, 6, 25-44.
- Terenzini, P. T., & Pascarella, E. T. (1978). The relation of students' precollege characteristics and freshman year experience to voluntary attrition. *Research in Higher Education*, 9, 347-366.
- The Education Trust (2003). *A matter of degrees: Improving graduation rates in four-year colleges and universities*. Washington, D.C.: United States Department of Education.
- Tinto, V. (1975). Dropout from higher education: A theoretical synthesis of recent research. *Review of Educational Research*, 45(1), 89-125.
- Tinto, V. (1987). *Leaving college: Rethinking the causes and cures for student attrition*. Chicago: University of Chicago Press.
- Tinto, V. (1993). *Leaving college: Rethinking the causes and cures for student attrition* (2<sup>nd</sup> ed.). Chicago: University of Chicago Press.
- Titley, R., & Titley, B. (1980). Initial choice of college major: Are only the "undecided" undecided? *Journal of College Student personnel*, 21(4), 293-298.
- Trippi, J., & Cheatham, N. E. (1989). Effects of special counseling for black freshmen on a predominantly white campus. *Journal of College Student Development*, 30(1), 35-40.
- Upcraft, M. L., Finney, J. E., & Garland, P. (1984). Orientation: A context. In M. L. Upcraft (Ed.), *Orienting students to college* (pp. 5-25). San Francisco: Jossey-Bass.
- U.S. Bureau of the Census (1994). *Statistical abstract of the United States: 1994* (114<sup>th</sup>

- ed.). Washington, DC: Government Printing Office.
- Walker, S. C., & Taub, D. J. (2001). Variables correlated with satisfaction with a mentoring relationship in first-year college students and their mentors. *Journal of The First Year Experience and Students in Transition*, 13(1), 47-67.
- Wallace, D., & Abel, R. (1997). *Clearing a path for success: Deconstructing borders in higher education through undergraduate mentoring*. Paper presented at the Annual Meeting of the Association for the Study of Higher Education, Albuquerque, NM (ERIC Document Reproduction Service No. ED 415 812.)
- Walter, T. L., & Smith, J. (1990, April). *Self-assessment and academic support: Do students know they need help?* Paper presented at the annual Freshman Year Experience Conference, Austin, Texas.
- “What Do I Want To Be. . .?” (1997). *LAS News*. (College of Liberal Arts and Sciences Newsletter, University of Illinois at Urbana-Champaign), Winter, p. 12.
- “What We Know About First-Year Students” (1996). In J. N. Gardner, & A. J. Jewler, *Your college experience: Instructor’s resource manual* (p. G-90).
- Willingham, W. W. (1985). *Success in college: The role of personal qualities and academic ability*. New York: College Entrance Examination Board.
- Wilson, R. C. (1975). *College professors and their impact on students*. New York: Wiley and Sons.
- Wingspread Group (1993). *An American imperative: Higher expectations for higher education*. Racine, WI: The Johnson Foundation.
- Winston, R. B., Jr. (1994). Developmental academic advising reconsidered: Chimera or unrealized potentiality? *NACADA Journal*, 14(2), 112-116.
- Winston, R. B., Ender, S. C., & Miller, T. K. (Eds.)(1982). *Developmental approaches to academic advising*. New Directions for Student Services, No. 17. San Francisco: Jossey-Bass.
- Winston, R. B., Miller, T. K., Ender, S. C., Grites, T. J., & Associates (1984). *Developmental academic advising*. San Francisco: Jossey-Bass.
- Wyckoff, S. C. (1999). The academic advising process in higher education: History, research, and improvement. *Recruitment & Retention in Higher Education*, 13(1), pp. 1-3.