



# Student engagement evidence summary

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## Executive summary

This report distils from our review of the student engagement literature some of the key statements that can be made with a reasonable degree of confidence about engagement. Bearing in mind the diversity of understandings of the term “student engagement”, claims should be read and interpreted with caution, extending implications only as far as the context and constraints allow. We categorise these statements into the three dimensions of engagement we identified in that report: student engagement in individual student learning; student engagement with structure and process; student engagement with identity. This report should be read in conjunction with the literature review<sup>1</sup>, where full references can also be found.

### Regarding student engagement in individual student learning:

- student engagement improves outcomes;
- specific features of engagement improve outcomes;
- engagement improves specific desirable outcomes;
- the value of engagement is no longer questioned;
- responsibility for engagement is shared.

### Regarding student engagement with structure and process:

- student engagement in university governance benefits student representatives;
- student representation on committees in the UK is generally felt to be effective;
- high-performing institutions share several ‘best practice’ features regarding student engagement in governance;
- high-performing institutions share several ‘best practice’ features regarding student leadership;
- the most commonly reported form of ‘engagement’ of students in the UK is through feedback questionnaires.

### Regarding student engagement with identity:

- prior characteristics do not determine whether students will engage;
- engagement benefits all students – but some more than others;
- engagement requires successful transition;
- some students experience engagement negatively.

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<sup>1</sup> Trowler, V. (2010) *Student Engagement Literature Review*. York: The Higher Education Academy

## 1. Introduction

### 1.1 Criteria for inclusion

This document presents an account of the findings of those studies of student engagement founded upon a robust evidential base. These studies are abstracted from the accompanying student engagement literature review, and are presented in more detail here.

We define 'robust' in relation to studies that meet these criteria:

1. having clear and researchable questions;
2. using an appropriate methodology to address those questions;
3. presenting evidence of an amount and type to give reasonable confidence in conclusions;
4. having conclusions based on, and limited to, the evidence presented.

In the UK, studies are much more often qualitative in character, based on case studies. Often these fail the test of robustness, set out above. This is not however to detract from their value. Studies of this nature can be extremely illuminative in terms of conceptualising the issues, developing theory in a way which the more positivist Australian and North American studies tend not to do, particularly in elaborating 'sensitising' theory and frameworks (Sibeon, 2007). They also indicate appropriate ways forward for research and development in valuable ways. However, we have in the main excluded them from this review as they do not meet our criteria for robustness.

There is a body of work produced in the UK which could be said to address student engagement but traces its roots back to other traditions, such as student feedback, student representation and student approaches to learning, and is less likely to be tagged as 'student engagement' in the authors' keywords. Because of this, the literature flagged as 'student engagement' is heavily skewed towards the North American/Australasian tradition. This report confines its attention to those works flagged as concerning student engagement by their authors rather than any publication which substantively addresses issues under our definition.

### 1.2 Scope of studies included

The student engagement literature review presents a matrix of areas covered by the term 'student engagement'. Attempting to cover each aspect of that matrix according to the criteria set out above would be a major task, even limiting studies to those meeting the criteria above. In this evidence summary, we have followed the schema

proposed in the student engagement literature review of the three axes along which student engagement literature can be located, viz. individual student learning, structure and process, and identity.

The main focus of the HEA's interest in student engagement is on students being engaged in shaping the design and delivery of curriculum, and so we have concentrated on presenting evidence related to that objective, insofar as that evidence exists. However, given the relative absence in the literature surveyed on that topic, other aspects (notably "individual student learning") dominate the evidence reported.

We note from the literature review that the robust evidential base in this area is much stronger in some areas of engagement than others, with strengths especially in the areas of individual student learning – particularly the correlation between student engagement in 'educationally purposive' activities and positive outcomes related to grades, persistence and graduation, at a generalised level. There is a very limited amount known with any degree of assurance in the areas of specific, local interventions, such as whether introducing 'clickers' (electronic 'voting' devices to answer closed-ended questions) in lectures to a large, diverse second-year class would engage students and lead to improved performance and persistence to an extent sufficient to offset the expense of the investment (or at all). Similarly, while several small-scale case studies (which may not be replicable or generalisable) attest to success in teaching innovations to *engage students* in the classroom via particular tools, techniques or environments, studies involving the *students themselves actively engaged* in the design and delivery of curriculum are conspicuously absent.

Moreover, the approach taken to studying student engagement in different countries is noticeably diverse. Many Australian studies and those in the United States tend to be founded upon more positivist<sup>2</sup> principles, being quantitative in nature with statistical analysis of data collected in large surveys.

### 1.3 Health warnings: evidence and practice

There are four good reasons to treat the evidence presented here with some caution.

First, while the studies described in this report meet the criteria above, the evidence and conclusions are time and place specific. Temporally, in each case they

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2 Positivist research aims for objectivity, replicability and freedom from values. In social as well as natural sciences, it foregrounds the testing of hypotheses through empirical observation.

present a snapshot; in general there is a dearth of longitudinal studies of student engagement in any of the domains to which that term applies. In relation to context, the studies are (of course) situated by country, region, institution and sometimes discipline. These have important influences on the practices and their effects studied, so that findings may not be transferred, or completely transferred, to a different context.

According to Kuh (2009b), 314):

*... given the increasing diversity of college students today, it is erroneous to presume that what works in one setting for certain students will have the same effects in other settings for different types of students. Because institutional contexts differ, students' experiences will differ, as will what they get out of college.*

For example, Kuh (2009a), 687) cautions that institution-specific analysis of National Survey of Student Engagement (NSSE) data “sometimes produce factor structures different than the five benchmarks or clusters of effective educational practices that NSSE uses to report its findings”, citing Gordon, Ludlum and Hoey (2006) as an example. Similarly, Kuh *et al.* (2008, 556) warn that:

*... simply offering [engaging] programs and practices does not guarantee that they will have the intended effects on student success. Institutional programs and practices must be of high quality, customised to meet the needs of students they are intended to reach, and firmly rooted in a student success-oriented campus culture.*

Second, several of the studies described here do not move beyond analysing findings and drawing conclusions from them. Student engagement is generally an area where research interest, particularly funded research, is sparked by a desire for enhancement. Yet many of the recommendations for practice based on the research conducted tend to be general and non-specific: the reader is left to infer how best these might translate into practice in their own situation. It is the researcher, however, who is best placed to make judgements about which direction, and how far, one can travel regarding policy and practice based on their findings. This is a deficiency in this area as in many other substantive areas of educational research. We echo Janet Finch's comment as long ago as 1988 about the frequent absence of a final section entitled 'policy recommendations' in these studies of student engagement. Other studies err in the opposite direction, making recommendations for practice that are innocent of context or situation, assuming that what worked for them would necessarily work in all

other cases and places.

Third, and related to the points above, great care is needed in considering whether and how to apply the evidence presented in these studies and others like them in one's own context. 'Evidence-based practice', much lauded in recent years, inherently contains a number of challenges. Contextual differences mean that what works in one place may not work, and may even be counter-productive, in another. We know from numerous evaluation and research studies in different areas of education that the outcomes of a single policy or strategy are very different from place to place (see, for example, Bove *et al.*, 1992). Fullan and Scott (2009), for example, talk about action based on evidence, but as important is interpretation of that evidence based on *good theory* and careful thought. Donald Schön warned about the alluring but deceptively simple link between evidence and practices in 1983, making a compelling argument for the necessity of cognitive work at the ground level by reflective practitioners. However, to do this work they need tools for thinking. Action for change needs to be *both* evidentially and theoretically informed. Here we present only evidence.

Fourth, as noted above, research into student learning is often motivated by a desire for change; specifically the enhancement of student learning. Presenting evidence is only one dimension of this. As we just noted, tools for thinking such as theory and concepts are important too; however, in considering enhancement issues, so is good thinking about how to bring about change. A good theory of change and a subtle understanding of how research findings can be most effectively be used in any given context, especially in strategy development and implementation approaches, are crucial if effective change is to be invoked.



## 2. Presentation of evidential base

From the literature, we can assert with reasonable confidence, the following:

### 2.1 Engagement and individual student learning

#### 2.1.1 Student engagement improves outcomes

The National Survey of Student Engagement – pioneered in the US and adopted in Canada, modified for use in Australia and New Zealand (as AUSSE) and South Africa (as SASSE), and currently being piloted in China – rests upon a body of knowledge built up since the mid-1980s establishing correlation between students' investment of time, effort and interest in a range of educationally orientated activities, and favourable outcomes such as increased performance, persistence and satisfaction.

Astin's 1984 paper dealt with student involvement in their own learning, a concept that was subsequently expanded to incorporate earlier aspects such as 'quality of effort' (Pace, 1980, 1984) and 'time-on-task' (Merwin, 1969), as well as later work (Pace, 1990; Chickering and Gamson, 1987) on effective practices in teaching and learning, emerging as 'student engagement' (Kuh *et al.*, 1991, 1997b; Kuh, 2004, 2008a; Pascarella and Terenzini, 1991, 2005; Ewell and Jones, 1996; Pace, 1995; Tinto, 1993; Coates, 2006).

#### 2.1.2 Specific features of engagement improve outcomes

Specific aspects of engagement, such as involvement, time on task, and quality of effort, have repeatedly been linked to positive outcomes (see Astin, 1984, 1999; Braxton, Milem and Sullivan, 2000; Goodsell, Maher and Tinto, 1992; Feldman and Newcomb, 1969; Kuh, 1995; Kuh *et al.*, 2005; Kuh, Pace and Vesper, 1997; Kuh, Whitt and Strange, 1989; LaNasa, Cabrera and Trangsrud, 2009; Pace, 1990, 1995; Pascarella, 1985; Pascarella and Terenzini, 1991, 2005; Pike, 2006a, 2006b; Tinto, 1987, 1993). Chickering and Gamson (1987) summarised the evidence into seven effective practices in undergraduate teaching and learning, viz.:

- student-staff contact;
- active learning;
- prompt feedback;
- time on task;
- high expectations;
- respect for diverse learning styles;
- co-operation among students.

**Academic challenge** is central to the engagement construct (NSSE, 2002, 10) and some disciplines are experienced as more challenging than others (see Pascarella, 2001; Coates and Ainley, 2007; Marks and Coates 2007). **Interacting with staff** has been shown to have a powerful impact on learning (Pascarella and Terenzini, 1991, 2005; Astin, 1993; Kuh and Hu 2001; Hausmann *et al.*, 2007; Cuseo, 2007), especially when it takes place **outside of the classroom** and responds to **individual student needs** (Kuh and Hu, 2001; Chickering and Reisser, 1993; Pascarella and Terenzini, 1991). Participation in **extra-curricular activities** has also been shown to be positively correlated to improved outcomes (Pascarella and Terenzini, 1991; McInnis *et al.*, 2001, 2005; Scott, 2006).

**Living on campus** has been positively correlated to engagement (Chickering, 1975; Pike and Kuh, 2005; Terenzini *et al.*, 1996) and **participating in a learning community** has been linked to substantial increases in engagement (Indiana University Center for Postsecondary Research, 2002; Pike, 1999; Pike *et al.*, 1997; Zhao and Ku, 2004). **Interactions with diverse peers** (in and out of the classroom) has been positively correlated with a range of positive outcomes, both personal and social (Antonio *et al.*, 2004; Chang, Astin and Kim, 2004; Chang *et al.*, 2006; Gurin *et al.* 2002; Harper and Antonio, 2008; Hu and Kuh, 2003; Pascarella *et al.*, 1996; Villalpando, 2002).

### 2.1.3 Engagement improves specific desirable outcomes

Studies have consistently shown correlations between engagement and improvements in specific desirable outcomes, including:

- general abilities and critical thinking (Endo and Harpel, 1982; Gellin, 2003; Kuh, 2003; Kuh, Hu and Vesper, 1997; Pascarella *et al.*, 1983; Pascarella *et al.*, 1996; Pike, 1999, 2000; Pike and Killian, 2001; Pike, Kuh and Gonyea, 2003; Shulman, 2002; Terenzini, Pascarella and Bliming, 1996);
- practical competence and skills transferability (Kuh, 1993, 1995);
- cognitive development (Anaya, 1996; Astin, 1993; Baxter Magolda, 1992; Kuh, 1993, 1995; Pascarella, Seifert and Blaich 2010; Pascarella and Terenzini, 2005);
- self-esteem, psychosocial development, productive racial and gender identity formation (Bandura *et al.*, 2000; Chickering and Reisser, 1993; Evans, Forney and Guido-DiBrito, 1998; Harper, 2004; Harper and Quayle, 2007; Torres, Howard-Hamilton and Cooper, 2003);
- moral and ethical development (Evans, 1987; Jones and Watt, 1999; Liddell and Davis, 1996; Rest, 1993);
- student satisfaction (Kuh and Vesper, 1997; Kuh *et al.*, 2005; Kuh *et al.*, 2007);
- accrual of social capital (Harper, 2008);

- improved grades (Astin, 1977, 1993; Indiana University Center for Postsecondary Research, 2002; Pike, Schroeder and Berry, 1997; Tross et al., 2000);
- persistence (Astin, 1975, 1984, 1993; Bean, 2005; Berger and Milem, 1999; Braxton, Milem and Sullivan, 2000; Bridges et al., 2005; Milem and Berger, 1997; Pascarella and Terenzini, 2005; Peltier, Laden and Matranga, 1999; Pike et al., 1997; Stage and Hossler, 2000; Swail, Redd and Perna, 2003; Tinto, 1993, 2000, 2005).

#### 2.1.4 The value of engagement is no longer questioned

Since the publication in 1984 of the (US) National Institute of Education's Involvement in Learning Report, according to Kuh (2009a, 684):

*... virtually every report ... emphasized to varying degrees the important link between student engagement and desired outcomes of college.*

Kuh (ibid.) goes on to list a string of reports including Association of American Colleges and Universities 2002, 2005, 2007; American College Personnel Association 1994; Education Commission of the States 1995; Joint Task Force on Student Learning 1998; Keeling 2004; National Association of State Universities and Land Grant Colleges 1997; National Commission on the Future of Higher Education 2006; and Wingspread Group on Higher Education 1993. In addition, Coates (2005, 26) lists reports from the UK and Australia which take the 'engagement improves outcomes' proposition as read (Brennan et al., 2003; [Australian] Department of Education, Science and Training, 2004).

#### 2.1.5 Responsibility for engagement is shared

While engagement ultimately requires the agency of the individual student (Krause and Coates, 2008; Hu and Kuh, 2001), the role of the institution (Kuh, 2009; Kuh and Whitt, 1988; Coates, 2005; Blackburn and Lawrence, 1995; Fairweather, 1996, 2002; Harper and Quayle, 2009a), teaching staff (Umbach and Wawrzynski, 2005; Astin, 1993; Kezar, 1999; Davis and Murrell, 1993; Quayle and Harper, 2007) and other staff, such as student affairs professionals (Kuh, 2009a) has also been demonstrated. This is summed up by Coates (2005, 26):

*The concept of student engagement is based on the constructivist assumption that learning is influenced by how an individual participates in educationally purposeful activities. Learning is seen as a 'joint proposition' ... however, which also depends on institutions and staff providing students with the conditions, opportunities and expectations to become involved. However, individual learners are ultimately the agents in discussions of engagement.*

## 2.2 Engagement and structure/process

Literature on engagement in structure and process was very scant, and compelling evidence was hard to come by. That which was found was concerned with student engagement in governance and leadership, rather than student involvement in shaping the design and delivery of curriculum in any direct sense – beyond student feedback questionnaires, which, as described by Kuh (2009), themselves constitute a form of engagement.

### 2.2.1 Student engagement in university governance benefits student representatives

Individual students benefit through their engagement as student representatives (Cress *et al.*, 2001; Kuh, 1994; Kuh and Lund, 1994; Lizzio and Wilson, 2009; Terenzini, Pascarella and Blimling, 1996). Institutions also benefit (Kezar, 2005; Magolda, 2005; Little *et al.*, 2009), as does society more broadly (Teune, 2001; Colby *et al.*, 2003; Sumner, 2008; Thornton and Jaeger, 2007; Astin, 1997).

### 2.2.2 Student representation on committees in the UK is generally felt to be effective

UK-based literature on student engagement through representation is typically not tagged as ‘student engagement’ by its authors, resulting in a paucity of such literature falling within the scope of this review.

The CHERI study on student engagement in England found student representation on university committees to be near universal, usually through students’ union officers. Student representation at faculty/school level, and at programme level, is also common, although much variation exists about operation at these levels. Institutions consider student representation to be reasonably or very effective, while students’ unions consider it less so. Institutions consider student representation to be more effective at programme and school level than at faculty level (Little *et al.*, 2009).

### 2.2.3 High-performing institutions share several ‘best practice’ features regarding student engagement in governance

Kezar (2005), drawing on NSSE data of high-performing institutions, distilled several ‘best practice’ tactics to foster shared leadership and collaboration between administrators, students and staff:

- develop a shared understanding of institutional mission and philosophy;
- use celebrations to engage the campus community in conversations about student success;
- advocate for shared governance;

- ensure that students have a prominent voice in campus governance;
- alter structures to encourage cross-function activities focused on student success;
- tighten the philosophical and operational links between academic and student affairs;
- empower and support staff leadership;
- create and capitalise on cross-function, boundary-spanning activities.

#### 2.2.4 High-performing institutions share several ‘best practice’ features regarding student leadership

Similarly, Magolda (2005) distilled ‘best practice’ guidelines from NSSE data of best-performing institutions, relating to student leadership:

- understand and embrace your organisation’s mission, history and culture;
- collaboration is essential;
- improve group performance by doing less, better;
- focus on creating win-win scenarios for the organisational members and the students they serve;
- strengthen the organisation by strengthening its members;
- celebrate important events, transitions and passages.

#### 2.2.5 The most commonly reported form of ‘engagement’ of students in the UK is through feedback questionnaires

The CHERI study found a variety of methods existed for the administering of student feedback questionnaires at institutions in England. Limited evidence was found that student leadership in investigating specific issues affecting students’ learning experience led to greater student engagement (Little *et al.*, 2009).

### 2.3 Engagement and identity

#### 2.3.1 Prior characteristics do not determine whether students will engage

Studies have been unable to produce consistent relationships between characteristics that students bring with them to their studies – such as gender, ethnicity or ability levels on entering HE – and the extent to which they engage as students (see Bauer and Liang, 2003; Endo and Harpel, 1982; Hu and Kuh, 2002; Indiana University Center for Postsecondary Research, 2002; Iverson, Pascarella and Terenzini, 1984; Kuh *et al.*, 2000; Pike, 1999, 2000; Pike and Killian, 2001; Pike *et al.*, 1997), and the relationships that were found were very weak (Pike, 1999, 2000; Pike and Killian, 2001; Pike *et al.*, 2003).

### 2.3.2 Engagement benefits all students – but some more than others

Engagement factors measured by survey instruments such as NSSE and AUSSE include time spent on campus and participation in extra-mural activities, such as membership of university sports teams or clubs and societies, leading to concerns from some (see Bensimon, 2007, Harper and Quaye, 2009) about whether the assumptions underlying the conceptualisation of engagement apply equally to ‘non-traditional’ students – those who are not full-time, residential, straight-from-school aged students from dominant racial/ethnic groups and historically advantaged socio-economic classes.

However, empirical research has shown the opposite: while all students benefit from engagement, some students benefit more than others (Pascarella and Terenzini, 2005). Studies have revealed the compensatory effect of engagement – meaning that those students who are least prepared academically benefit more from engagement than those who are most prepared, in relation to effects on grades and persistence (Carini, Kuh and Klein, 2006; Cruce *et al.*, 2006; Kuh, 2009b; Kuh *et al.*, 2008; NSSE, 2007; Pascarella and Terenzini, 2005).

### 2.3.3 Engagement requires successful transition

‘Becoming a student’ and developing an identity as a student is a prerequisite for successful engagement (Crossan *et al.*, 2003; Gallacher *et al.*, 2002; Jackson, 2003; Kuh *et al.*, 2005; Krause and Coates, 2008) and developing a sense of belonging to the university community (Zhao and Kuh, 2004; Pascarella and Terenzini, 2005; Krause, 2005, 2006; Krause *et al.*, 2005). Many students from ‘non-traditional’ backgrounds experience ‘culture shock’ on entering university (Griffiths, Winstanley and Gabriel, 2005; Forsyth and Furlong, 2003; Krause and Coates, 2008; Christie *et al.*, 2008). They experience tensions between normative, essentialised notions of student identity and their experiences as ‘non-traditional’ students (Christie, Munro and Wager, 2005; Christie *et al.*, 2008; Thomas and Quinn, 2006; Hughes, 2002; Waller, 2006). Bensimon (2009, xxii-xxiii) describes how:

*... productive engagement is an important means by which students develop feelings about their peers, professors and institutions that give them a sense of connectedness, affiliation, and belonging, while simultaneously offering rich opportunities for learning and development.*

Thus, for students struggling with transition, engagement in those activities strongly correlated with positive educational outcomes can facilitate a sense of belonging and a positive student identity (Cabrera *et al.*, 1999; Kuh, Palmer and Kish, 2003; Kuh *et al.*, 2005).

### 2.3.4 Some students experience engagement negatively

Some students, particularly 'non-traditional' students, experience university culture as foreign, alienating or hostile (Krause, 2005, 2006; Forsyth and Furlong, 2003; Gallego and Hollingsworth, 2000; MacKinnon and Manathunga, 2003; Ten Yew and Farrell, 2001). Despite demonstrating high levels of engagement against measures of participation, they still feel overwhelmed and isolated (Forsyth and Furlong, 2003; Krause, 2005, 2006). These groups include:

- international students (Anderson et al., 2009);
- students with disabilities (Nichols and Quaye, 2009);
- LGBTQ [Lesbian, Gay, Bisexual, Transgender and Questioning] students (Schueler, Hoffman and Peterson, 2009);
- students from minority religious groups (Mahaffey and Smith, 2009);
- racial/ethnic minority students in different contexts (Harper, 2009; Quaye, Tambascia and Talesh, 2009; Hawkins and Larabee, 2009; Sallee et al., 2009);
- gender minority students in different contexts (Rypisi, Malcom and Kim 2009; Harris and Lester, 2009);
- commuter/part-time/transfer/returning students (Silverman, Aliabadi and Stiles 2009);
- low-income, first-generation students (Gupton et al., 2009).

Campuses in the US are reportedly becoming increasingly segregated (Hurtado et al., 1999), with minority student groups reporting little interaction between themselves and dominant groupings and little attention on improving climate (Ancis, Sedlacek and Mohr, 2000; Cabrera et al., 1999; Harper and Hurtado, 2007; Hurtado, 1992). Hostile climates reduce 'non-traditional' students' chances of engagement, persistence or success (Harper and Quaye, 2009a).

Thus, Harper and Quaye (2009a, 3) note:

*We are persuaded by a large volume of empirical evidence that confirms that strategizing ways to increase the engagement of various student populations, especially those for whom engagement is known to be problematic, is a worthwhile endeavour. The gains and outcomes are too robust to leave to chance, and social justice is unlikely to ensue if some students come to enjoy the beneficial by-products of engagement but others to not .*

## Conclusion

A substantial, robust body of evidence exists to support assertions that individual student engagement in educationally purposive activities leads to more favourable educational outcomes. Despite the rhetoric on the (uncontested) value of student engagement for individual students, their institutions, the higher education sector and society more generally, very little evidence can be found in the literature of students being engaged in issues beyond their own learning, as individuals, in any direct way. Students are typically presented as the customers of engagement, rather than co-authors. Where students are involved in shaping the design and delivery of curriculum, it tends mostly to be indirectly through feedback surveys, often with problems reported around closing the feedback loop. Student participation on programme or departmental committees has been found in several institutions in England, but great variability exists at this level and there is little evidence of the nature, function or quality of this form of engagement.

Engagement was found to be particularly beneficial to those groups of students least prepared for higher education, although these students were more likely to view engagement as a negative process owing to feelings of isolation, alienation or being overwhelmed.

The 'student engagement' construct enjoys widespread uncritical acceptance across educational structures and has become pervasive in reports in several countries, particularly the US and Australia.

*Recommendations for further study* include: UK-based longitudinal, cross-institution studies (possibly by discipline/discipline cluster) to glean a picture of student engagement against which to frame case studies; more in-depth study to understand causation of observed phenomena such as the compensatory effect of engagement or the conflicting evidence surrounding expenditure and engagement; and studies of direct student engagement in the shaping of design and delivery of curriculum.



## References

- Anaya, G. (1999) College Impact on Student Learning: Comparing the Use of Self-Reported Gains, Standardized Test Scores and College Grades. *Research in Higher Education*. 40 (5), pp. 499–526.
- Ancis, J., Sedlacek, W. and Mohr, J. (2000) Student Perceptions of Campus Cultural Climate by Race. *Journal of Counseling and Development*. 78 (2), pp. 180–185.
- Anderson, G., Carmichael, K.Y., Harper, T.J. and Huang, T. (2009) International Students at Four-Year Institutions: Developmental Needs, Issues and Strategies. In: Harper, S.R. and Quaye, S.J. (eds.) *Student Engagement in Higher Education: Theoretical Perspectives and Practical Approaches for Diverse Populations*. New York and London: Routledge, pp. 17–37.
- Antonio, A.L., Chang, M.J., Hakuta, K., Kenny, D.A., Levin, S. and Milem, J.F. (2004) Effects of Racial Diversity on Complex Thinking in College Students. *Psychological Science*. 15 (8), pp. 507–510.
- Astin, A.W. (1975) *Preventing Students From Dropping Out*. San Francisco: Jossey-Bass.
- Astin, A.W. (1977) *Four Critical Years*. San Francisco: Jossey-Bass.
- Astin, A.W. (1984) Student Involvement: A Developmental Theory for Higher Education. *Journal of College Student Development*. 25, pp. 297–308.
- Astin, A.W. (1993) *What Matters in College? Four Critical Years Revisited*. San Francisco: Jossey-Bass.
- Astin, A.W. (1997) Liberal Education and Democracy: The Case for Pragmatism. In: Orill, R. (ed.) *Education and Democracy Re-imagining Liberal Learning in America*. New York: College Entrance Examination Board, pp. 207–223.
- Astin, A.W. (1999) *Involvement in Learning Revisited: Lessons we have Learned*. *Journal of College Student Development*. 40 (5), pp. 587–598.
- Bamber, V., Trowler, P., Saunders, M. and Knight, P. (eds.) (2009) *Enhancing Learning and Teaching in Higher Education: Theory, Cases, Practices*. Buckingham: Open University Press/SRHE.
- Bandura, A., Millard, M., Peluso, E.A. and Ortman, N. (2000) Effects of Peer Education Training on Peer Educators: Leadership, Self-Esteem, Health Knowledge and Health Behaviors. *Journal of College Student Development*. 41 (5), pp. 471–478.
- Bauer, K.W. and Liang, Q. (2003) The Effect of Personality and Precollege Characteristics on First Year Activities and Academic Performance. *Journal of College Student Development*. 44(3), pp. 277–290.

- Baxter Magolda, M.B. (1992) Cocurricular Influences on College Students' Intellectual Development. *Journal of College Student Development*. 33(3), pp. 203–213.
- Bean, J.P. (2005) Nine Themes of College Student Retention. In: Seidman, A. (ed.) *College Student Retention: Formula for Student Success*. Washington DC: ACE & Praeger, pp. 215–244.
- Bensimon, E.M. (2007) The Underestimated Significance of Practitioner Knowledge in the Scholarship of Student Success. *Review of Higher Education*. 30 (4), pp. 441–469.
- Bensimon, E.M. (2009) Foreword. In: Harper, S.R. and Quaye, S.J. (eds.) *Student Engagement in Higher Education*. New York and London: Routledge, pp. xxi-xxvi.
- Berger, J.B. and 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), pp. 641–664.
- Blackburn, R. and Lawrence, J. (1995) *Faculty at Work: Motivation, Expectation, Satisfaction*. Baltimore: The Johns Hopkins University Press.
- Bloom, B.S. (ed.) (1956) *Taxonomy of Educational Objectives: the Classification of Educational Goals*. New York: D McKay & Co, Inc.
- Bowe, R., Ball, S.J. and Gold, A. (1992) *Reforming Education and Changing Schools: Case Studies in Policy Sociology*. London: Routledge.
- Braxton, J.M., Milem, J.F. and Sullivan, A.S. (2000) The Influence of Active Learning on the College Student Departure Process: Towards a Revision of Tinto's Theory. *Journal of Higher Education*. 71 (5), pp. 569–590.
- Brennan, J., Brighton, R., Moon, N., Richardson, J., Rindi, J. and Williams, R. (2003) *Collecting and Using Student Feedback on Quality and Standards of Learning and Teaching in HE: A report to Higher Education Funding Council for England*. Bristol: HEFCE.
- Bridges, B.K., Cambridge, B., Kuh, G.D. and Leegwater, L.H. (2005) Student Engagement at Minority Serving Institutions: Emerging Lessons from the BEAMS Project. In: Gaither, G.H. (ed.) *Minority Retention: What Works? New Directions for Institutional Research*. No. 125. San Francisco: Jossey-Bass, pp. 25–43.
- Cabrera, A.F., Nora, A., Terenzini, P.T., Pascarella, E.T. and Hagedorn, L.S. (1999) Campus Racial Climate and the Adjustment of Students to College: A Comparison between White Students and African American Students. *Journal of Higher Education*. 70 (2), pp. 134–202.
- Carini, R.M., Kuh, G.D. and Klein, S.P. (2006) Student Engagement and Student Learning: Testing the Linkages. *Research in Higher Education*. 47 (1), pp. 1–24.

- Chang, M.J., Astin, A.W. and Kim, D. (2004) Cross-Racial Interaction Among Undergraduates: Some Consequences, Causes and Patterns. *Research in Higher Education*. 45 (5), pp. 529–553.
- Chang, M.J., Chang, J.C. and Ledesma, M.C. (2005) Beyond Magical Thinking: Doing the Real Work of Diversifying our Institutions. *About Campus*. 10 (2), pp. 9–16.
- Chang, M.J., Denson, N., Saenz, V. and Misa, K. (2006) The Educational Benefits of Sustaining Cross-Racial Interaction Among Undergraduates. *Journal of Higher Education*. 77 (3), pp. 430–455.
- Chickering, A.W. (1975) *Commuting versus Resident Students: Overcoming the Educational Inequities of Living Off Campus*. San Francisco: Jossey-Bass.
- Chickering, A.W. and Gamson, Z.F. (1987) Seven Principles for Good Practice in Undergraduate Education. *AAHE Bulletin*. 39 (7), pp. 3–7.
- Chickering, A.W. and Reisser, L. (1993) *Education and Identity*. San Francisco: Jossey-Bass.
- Christie, H., Munro, M. and Wager, F. (2005) ‘Day Students’ in Higher Education: Widening Access Students and Successful Transition to University Life. *International Studies in Sociology of Education*. 15 (1), pp. 3–29.
- Coates, H. (2005) The Value of Student Engagement for Higher Education Quality Assurance. *Quality in Higher Education*. 11 (1), pp. 25–36.
- Coates, H.C. (2006) *Student Engagement in Campus-based and Online Education: University Connections*. London: Routledge.
- Coates, H. (2007) A Model of Online and General Campus-Based Student Engagement. *Assessment and Evaluation in Higher Education*. 32 (2), pp. 121–141.
- Coates, H. (2009) *Engaging Students for Success - 2008 Australasian Survey of Student Engagement*. Victoria, Australia: Australian Council for Educational Research.
- Coates, H. (2010) Development of the Australasian Survey of Student Engagement (AUSSE). *Higher Education*. 60 (1), pp. 1–17.
- Coates, H.C. and Ainley, J. (2007) *Graduate Course Experience, 2006: The Report of the Course Experience Questionnaire (CEQ)*. Parkville, Victoria, Australia:GCA.
- Colby, A., Ehrlich, T., Beaumont, E. and Stephens, J. (2003) *Educating Citizens: Preparing America’s Undergraduates for Lives of Moral and Civic Responsibility*. San Francisco: Jossey-Bass.
- Cress, C.M., Astin, H.S., Zimmerman, B., Oster, K. and Burkhardt, J.C. (2001) Developmental Outcomes of College Students’ Involvement in Leadership Activities. *Journal of College Student Development*. 42 (1), pp. 15–29.

- Crossan, B., Field, J., Gallacher, J. and Merrill, B. (2003) Understanding Participation in Learning for Non-Traditional Adult Learners: Learning Careers and the Construction of Learner Identities. *British Journal of Sociology of Education*. 24 (1), pp. 55–67.
- Cruce, T., Wolniak, G.C., Seifert, T.A. and Pascarella, E.T. (2006) Impacts of Good Practices on Cognitive Development, Learning Orientations, and Graduate Degree Plans during the First Year of College. *Journal of College Student Development*. 47 (4), pp. 365–383.
- Cuseo, J. (2007) The Empirical Case Against Large Class Size: Adverse Effects on the Teaching, Learning and Retention of First-Year Students. *The Journal of Faculty Development*. 21 (1), pp. 5–21.
- Dale, C. and Lane, A.M. (2007) A Wolf in Sheep's Clothing? An Analysis of Student Engagement with Virtual Learning Environments. *Journal of Hospitality, Leisure, Sport and Tourism Education*. 6 (2), pp. 100–108.
- Davis, T.M. and Murrell, P.H. (1993) *Turning Teaching into Learning: The Role of Student Responsibility in the Collegiate Experience*. Washington DC: ERIC Clearinghouse on Higher Education.
- Department of Education, Science and Training (DEST) (2004) *Learning and Teaching Performance Fund: Issues Paper*. Canberra, Australia: Department of Education Science and Training.
- Endo, J.J. and Harpel, R.L. (1982) The Effect of Student-Faculty Interaction on Students' Educational Outcomes. *Research in Higher Education*. 16 (2), pp. 115–137.
- Evans, N.J. (1987) A Framework for Assisting Student Affairs Staff in Fostering Moral Development. *Journal of Counseling and Development*. 66 (4), pp. 191–193.
- Evans, N.J., Forney, D.S. and Guido-DiBrito, F. (1998) *Student Development in College: Theory, Research & Practice*. San Francisco: Jossey-Bass.
- Ewell, P.T. and Jones, D.P. (1996) *Indicators of "Good Practice" in Undergraduate Education: A Handbook for Development and Implementation*. Boulder, CO: National Center for Higher Education Management Systems.
- Fairweather, J. (1996) *Faculty Work and Public Trust: Restoring the Value of Teaching and Public Service in American Academic Life*. Boston, MA: Allyn & Bacon.
- Fairweather, J. (2002) The Mythologies of Faculty Productivity: Implications for Institutional Policy and Decision Making. *Journal of Higher Education*. 73 (1), pp. 26–48.
- Feldman, K.A. and Newcomb, T. (1969) *The Impact of College on Students*. San Francisco: Jossey-Bass.

- Finch, J. (1988) *Ethnography and Public Policy*. In: Pollard, A.E.A. (ed.) *Education, Training and the New Vocationalism*. Oxford: Oxford University Press, pp. 185–200.
- Forrester, G., Motteram, G., Parkinson, G. and Slaouti, D. (2004) *Going the Distance: Students' Experiences of Induction to Distance Learning in Higher Education*. Paper presented at the *British Educational Research Association Annual Conference*. University of Manchester, 15–18 September, pp. 1.
- Forsyth, A. and Furlong, A. (2003) *Access to Higher Education and Disadvantaged Young People*. *British Educational Research Journal*. 29 (2), pp. 205–225.
- Fredricks, J.A., Blumenfeld, P.C. and Paris, A.H. (2004) *School Engagement: Potential of the Concept, State of the Evidence*. *Review of Educational Research*. 74 (1), pp. 59–109.
- Fullan, M. and Scott, G. (2009) *Turnaround Leadership for Higher Education*. San Francisco: Jossey-Bass.
- Gallacher, J., Crossan, B., Field, J. and Merrill, B. (2002) *Learning Careers and the Social Space: Exploring the Fragile Identities of Adult Returners in the New Further Education*. *International Journal of Lifelong Learning*. 6 (1), pp. 493–509.
- Gallego, M.A. and Hollingsworth, S. (eds.) (2000) *What Counts as Literacy*. New York: Teachers College Columbia University.
- Gellin, A. (2003) *The Effect of Undergraduate Student Involvement on Critical Thinking: A Meta-Analysis of the Literature, 1991–2000*. *Journal of College Student Development*. 44 (6), pp. 746–762.
- Gonyea, R.M. and Kuh, G.D. (2009) *NSSE, Organizational Intelligence, and the Institutional Researcher*. *New Directions for Institutional Research*. 141 (Spring), p. 107.
- Goodsell, A., Maher, M. and Tinto, V. (eds.) (1992) *Collaborative Learning: A Sourcebook for Higher Education*. University Park, PA: National Center on Postsecondary Teaching, Learning and Assessment, Pennsylvania State University.
- Gordon, J., Ludlum, J. and Hoey, J.J. (2006) *Validating the National Survey of Student Engagement Against Student Outcomes: Are They Related?* Paper presented at the *Annual Forum of the Association for Institutional Research*. Chicago, 14–18 May.
- Graham, C.R., Tripp, T.R., Seawright, L. and Joeckel, G.L., (2007) *Empowering or Compelling Reluctant Participants Using Audience Response Systems*. *Active Learning in Higher Education*. 8 (3), pp. 233–258.
- Greenbank, P., Hepworth, S. and Mercer, J. (2009) *Term-time Employment and the Student Experience*. *Education and Training*. 51 (1), pp. 43–55.

- Griffiths, S., Winstanley, D. and Gabriel, Y. (2005) Learning Shock: The Trauma of Return to Formal Learning. *Management Learning*. 36 (3), pp. 275–197.
- Gupton, J.T., Castelo-Rodriguez, C., Martinez, D.A. and Quintanar, I. (2009) Creating a Pipeline to Engage Low-Income, First-Generation College Students. In: Harper, S.R. and Quaye, S.J. (eds.) *Student Engagement in Higher Education: Theoretical Perspectives and Practical Approaches for Diverse Populations*. New York and London: Routledge, pp. 243–259.
- Gurin, P., Dey, E.L., Hurtado, S. and Gurin, G. (2002) Diversity and Higher Education: Theory and Impact on Educational Outcomes. *Harvard Educational Review*. 72 (3), pp. 330–366.
- Habib, B. (2007) Breaking the Ritual: Getting Students to Participate in Discussion-based Tutorials in the Social Sciences. In: Crisp, G., Hicks, M., Burdett, J., Gannaway, L., Maddox, L. and Winning, T. (eds.) *Enhancing Higher Education, Theory and Scholarship: Proceedings of the 30th HERDSA Annual Conference, 8–11 July 2007, Adelaide, Australia*. Milperra, NSW, Australia: HERDSA.
- Harper, S.R. (2004) The Measure of a Man: Conceptualizations of Masculinity Among High-Achieving African American Male College Students. *Berkeley Journal of Sociology*. 48 (1), pp. 89–107.
- Harper, S.R. (2008) Realizing the Intended Outcomes of *Brown*: High-Achieving African American Male Undergraduates and Social Capital. *American Behavioral Scientist*. 51 (7), pp. 1–24.
- Harper, S.R. (2009) Institutional Seriousness Concerning Black Male Student Engagement: Necessary Conditions and Collaborative Partnerships. In: Harper, S.R. and Quaye, S.J. (eds.) *Student Engagement in Higher Education: Theoretical Perspectives and Practical Approaches for Diverse Populations*. New York and London: Routledge, pp. 137–155.
- Harper, S.R. and Antonio, A.L. (2008) Not by Accident: Intentionality in Diversity, Learning, and Engagement. In: Harper, S.R. (ed.) *Creating Inclusive Campus Environments for Cross-Cultural Learning and Student Engagement*. Washington DC: NASPA, pp. 1–18.
- Harper, S.R. and Hurtado, S. (2007) Nine Themes in Campus Racial Climates and Implications for Institutional Transformation. In: Harper, S.R. and Patton, L.D. (eds.) *Responding to the Realities of Race on Campus. New Directions for Student Services No 120*. San Francisco: Jossey-Bass, pp. 7–24.

- Harper, S.R. and Quaye, S.J. (2007) Student Organizations as Venues for Black Identity Expression and Development among African American Male Student Leaders. *Journal of College Student Development*. 48 (2), pp. 133–159.
- Harper, S.R. and Quaye, S.J. (2009a) Beyond Sameness, with Engagement and Outcomes for All. In: *Student Engagement in Higher Education*. New York and London: Routledge, pp. 1–15.
- Harper, S.R. and Quaye, S.J. (eds.) (2009b) *Student Engagement in Higher Education*. New York and London: Routledge.
- Harper, S.R., Carini, R.M., Bridges, B.K. and Hayek, J.C. (2004) Gender Differences in Student Engagement among African American Undergraduates at Historically Black Colleges and Universities. *Journal of College Student Development*. 45 (3), pp. 271–284.
- Harris, F.I. and Lester, J. (2009) Gender-Specific Approaches to Enhancing Identity Development among Undergraduate Women and Men. In: Harper, S.R. and Quaye, S.J. (eds.) *Student Engagement in Higher Education: Theoretical Perspectives and Practical Approaches for Diverse Populations*. New York and London: Routledge, pp. 99–115.
- Haug, K.H. (2006) Students' Development of Assessment Criteria and Enhancement of Learning Potential. *Paper presented at the European Conference on Educational Research*. University of Geneva, 13–15 September.
- Hausman, L., Schofield, J. and Woods, R. (2007) Sense of Belonging as a Predictor of Intentions to Persist Among African American and White First-Year College Students. *Research in Higher Education*. 48 (7), pp. 803–839.
- Hawkins, V.M. and Larabee, H.J. (2009) Engaging Racial/Ethnic Minority Students in Out-of-Class Activities on Predominantly White Campuses. In: Harper, S.R. and Quaye, S.J. (eds.) *Student Engagement in Higher Education: Theoretical Perspectives and Practical Approaches for Diverse Populations*. New York and London: Routledge, pp. 179–197.
- HEFCE (2008) *Tender for a Study into Student Engagement*. Bristol: Higher Education Funding Council for England.
- Heiberger, G. and Harper, R. (2008) Have You Facebooked Astin Lately? Using Technology to Increase Student Involvement. *New Directions for Student Services*. 124 (Winter 2008), pp. 19–35.
- Hillard, V.E. (1988) Boredom and the Pedagogy of Responsibility. *Paper presented at the Annual Meeting of the Central States Speech Association*. Schaumburg, IL, 16–18 April.

- Hockings, C. (2009) Reaching the Students that Student-Centred Learning Cannot Reach. *British Educational Research Journal* 35 (1), pp. 83–98.
- Holley, D. and Oliver, M. (2010) Student Engagement and Blended Learning: Portraits of Risk. *Computers and Education*. 54 (3), pp. 693–700.
- Hu, S. and Kuh, G.D. (2001) Being (Dis)Engaged in Educationally Purposeful Activities: The Influences of Student and Institutional Characteristics. *Paper presented at the American Educational Research Association Annual Conference*. Seattle, WA, 10–14 April.
- Hu, S. and Kuh, G.D. (2002) Being (Dis)Engaged in Educationally Purposeful Activities: The Influences of Student and Institutional Characteristics. *Research in Higher Education*. 43 (5), pp. 555–575.
- Hu, S. and Kuh, G.D. (2003) Diversity Experiences and College Student Learning and Development. *Journal of College Student Development*. 44 (3), pp. 320–334.
- Hu, S., Kuh, G.D. and Li, S. (2008) The Effects of Engagement in Inquiry-Oriented Activities on Student Learning and Personal Development. *Innovative Higher Education*. 33 (2), pp. 71–81.
- Hughes, C. (2002) Beyond the Poststructuralist-modern Impasse: The Woman Returner as ‘exile’ and ‘nomad’. *Gender and Education*. 14 (4), pp. 411–424.
- Hurtado, S. (1992) The Campus Racial Climate: Contexts for Conflict. *Journal of Higher Education*. 63 (5), pp. 539–569.
- Hurtado, S., Milem, J., Clayton-Pedersen, A. and Allen, W. (1999) *Enacting Diverse Learning Environments: Improving the Climate for Racial/Ethnic Diversity in Higher Education*. ASHE-ERIC Higher Education Report Vol 26 No 8. Washington DC: The George Washington University, Graduate School of Education and Human Development.
- Hyland, F. (2003) Focusing on Form: Student Engagement with Teacher Feedback. *System*. 31 (2), pp. 217–230.
- Indiana University Center for Postsecondary Research (2002) *From Promise to Progress: How Colleges and Universities are Using Student Engagement Results to Improve Collegiate Quality*. Bloomington, IN: Indiana Center for Postsecondary Research.
- Iversen, B.K., Pascarella, E.T. and Terenzini, P.T. (1984) Informal Faculty-Student Contact and Commuter College Freshmen. *Research in Higher Education*. 21 (2), pp. 123–136.
- Jackson, C. (2003) Transitions into Higher Education: Gendered Implications for Academic Self-Concept. *Oxford Review of Education*. 29 (3), pp. 331–346.



- Jankowska, M. and Atlay, M. (2008) Use of Creative Space in Enhancing Students' Engagement. *Innovations in Education and Teaching International*. 45 (3), pp. 271–279.
- Jary, D. and Lebeau, Y. (2009) The Student Experience and Subject Engagement in UK Sociology: a Proposed Typology. *British Journal of Sociology of Education*. 30 (6), pp. 697–712.
- Jones, C.E. and Watt, J.D. (1999) Psychosocial Development and Moral Orientation Among Traditional-Aged College Students. *Journal of College Student Development*. 40 (2), pp. 125–132.
- Jones, R.C. (2008) The “Why” of Class Participation: A Question Worth Asking. *College Teaching*. 56 (1), pp. 59–63.
- Kandiko, C.B. (2008) Student Engagement in Two Countries: a Comparative Study Using National Survey of Student Engagement (NSSE) data. *Journal of Institutional Research*. 14 (1), pp. 71–86.
- Keenan, C. (2007) Case 6: Students Getting Down to Work Before they Start at University: a Model for Improving Retention. In: Crosling, G., Thomas, L. and Heagney, M. (eds.) *Improving Student Retention in Higher Education: the Role of Teaching and Learning*. London: Routledge, pp. 82–87.
- Kezar, A. (1999) *Higher Education Trends: Faculty*. Washington DC: ERIC Clearinghouse on Higher Education.
- Kezar, A. (2005) *Promoting Student Success: The Importance of Shared Leadership and Collaboration*. Occasional Paper No. 4. Bloomington, IN: National Survey of Student Engagement.
- Kezar, A.J. (2006), The Impact of Institutional Size on Student Engagement. *NASPA Journal*. 43 (1), pp. 87–114.
- Kezar, A. (2007) Creating and Sustaining a Campus Ethos Encouraging Student Engagement. *About Campus*. 11 (6), pp. 13–18.
- King, S.O. and Robinson, C.L. (2009) “Pretty Lights” and Maths! Increasing Student Engagement and Enhancing Learning through the Use of Electronic Voting Systems. *Computers and Education*. 53 (1), pp. 189–199.
- Kinzie, J. (2005) *Promoting Student Success: What Faculty Members Can Do*. Bloomington, IN: National Survey of Student Engagement.
- Kinzie, J. and Kuh, G.D. (2004) Going DEEP: Learning from Campuses that Share Responsibility for Student Success. *About Campus*. 9 (5), pp. 2–8.
- Kinzie, J.L., Thomas, A.D., Palmer, M.M., Umbach, P.D. and Kuh, G.D. (2007) Women Students at Coeducational and Women's Colleges: How Do Their Experiences Compare? *Journal of College Student Development*. 48 (2), pp. 145–165.

- Knight, P. and Trowler, P. (2001) *Departmental Leadership for Higher Education: new directions for communities of practice*. Buckingham: Open University Press/SRHE.
- Koljatic, M. and Kuh, G.D. (2001) A Longitudinal Assessment of College Student Engagement in Good Practices in Undergraduate Education. *Higher Education*. 42 (3), pp. 351–371.
- Krause, K. (2005) Understanding and Promoting Student Engagement in University Learning Communities. Paper presented as keynote address: *Engaged, Inert or Otherwise Occupied?: Deconstructing the 21st Century Undergraduate Student* at the James Cook University Symposium ‘Sharing Scholarship in Learning and Teaching: Engaging Students’. James Cook University, Townsville/Cairns, Queensland, Australia, 21–22 September.
- Krause, K. (2006) Accommodating Diverse Approaches to Student Engagement. *Keynote paper presented at New Zealand Quality Enhancement Meeting 11*, Wellington, New Zealand, 28–29 September.
- Krause, K. and Coates, H. (2008) Students’ Engagement in First-Year University. *Assessment and Evaluation in Higher Education*. 33 (5), pp. 493–505.
- Kuh, G.D. (1993) In their Own Words: What Students Learn Outside the Classroom. *American Educational Research Journal*. 30 (2), pp. 277–304.
- Kuh, G.D. (1994) *Student Learning Outside the Classroom: Transcending Artificial Boundaries*. Washington DC: Office of Educational Research & Improvement.
- Kuh, G.D. (1995) The Other Curriculum: Out-of-class Experiences Associated with Student Learning and Personal Development. *Journal of Higher Education*. 66 (2), pp. 123–155.
- Kuh, G.D. (2001) Assessing What Really Matters to Student Learning: Inside the National Survey of Student Engagement. *Change*. 33 (3), pp. 10–17.
- Kuh, G.D. (2005a) *Promoting Student Success: What Campus Leaders Can Do*. Bloomington, IN: National Survey of Student Engagement.
- Kuh, G.D. (2005b) Putting Student Engagement Results to Use: Lessons from the Field. *Assessment Update*. 17 (1), pp. 12–13.
- Kuh, G.D. (2007) How to Help Students Achieve. *Chronicle of Higher Education*. 53 (41), pp. B12–13.
- Kuh, G.D. (2008a) *High-Impact Practices: What they Are, Who has Access to them, and Why they Matter*. Washington DC: Association of American Colleges and Universities.
- Kuh, G.D. (2008b) Diagnosing Why Some Students Don’t Succeed. *The Chronicle of Higher Education*. 55 (16), p. A72.

- Kuh, G.D. (2009a) What Student Affairs Professionals Need to Know about Student Engagement. *Journal of College Student Development*. 50 (6), pp. 683–706.
- Kuh, G.D. (2009b) Afterword. In: Harper, S.R. and Quaye, S.J. (eds.) *Student Engagement in Higher Education*. New York and London: Routledge, pp. 313–318.
- Kuh, G.D. (2009c) The National Survey of Student Engagement: Conceptual and Empirical Foundations. *New Directions for Institutional Research*. 141 (Spring 2009), pp. 5–20.
- Kuh, G.D., Cruce, T.M., Shoup, R., Kinzie, J. and Gonyea, R.M. (2008) Unmasking the Effects of Student Engagement on First-Year College Grades and Persistence. *Journal of Higher Education*. 79 (5), pp. 540–563.
- Kuh, G.D., Hu, S. and Vesper, N. (2000) “They Shall Be Known By What They Do”: An Activities-Based Typology of College Students. *Journal of College Student Development*. 41 (2), pp. 228–244.
- Kuh, G.D. and Hu, S. (2001) The Effects of Student Faculty Interaction in the 1990s. *Review of Higher Education*. 24 (3), pp. 309–332.
- Kuh, G.D., Kinzie, J., Schuh, J.H. and Whitt, E.J. (2005) Never Let It Rest: Lessons about Student Success from High-Performing Colleges and Universities. *Change: The Magazine of Higher Learning*. 37 (4), pp. 44–51.
- Kuh, G.D., Kinzie, J., Buckley, J.A., Bridges, B.K. and Hayek, J.C. (2007) *Piecing Together the Student Success Puzzle: Research, Propositions, and Recommendations*. ASHE Higher Education Report, Vol 32, No 5. San Francisco: Jossey-Bass.
- Kuh, G.D. and Lund, J.P. (1994) What Students Gain from Participating in Student Government. *New Directions for Student Services*. 66, pp. 5–17.
- Kuh, G.D., Pace, C.R. and Vesper, N. (1997) The Development of Process Indicators to Estimate Student Gains Associated with Good Practice in Undergraduate Education. *Research in Higher Education*. 38 (4), pp. 435–454.
- Kuh, G.D., Palmer, M. and Kish, K. (2003) “The Value of Educationally Purposeful Out-of-Class Experiences.” In: Skipper, T.L. and Argo, R. (eds.) *Involvement in Campus Activities and the Retention of First Year College Students*. The First-Year Monograph Series No 36. Columbia, SC: University of South Carolina, National Resource Center for the First Year Experience and Students in Transition, pp. 19–34.
- Kuh, G.D., Schuh, J.H., Whitt, E.J., Andreas, R.E., Lyons, J.W., Strange, C.C., Krehbiel, L.E. and MacKay, K.A. (1991) *Involving Colleges: Successful approaches to fostering student learning and development outside the classroom*. San Francisco: Jossey-Bass.

- Kuh, G.D. and Umbach, P.D. (2004) College and Character: Insights from the National Survey of Student Engagement. *New Directions for Institutional Research*. 122 (Summer), pp. 37–54.
- Kuh, G.D. and Vesper, N. (1997) A Comparison of Student Experiences with Good Practices in Undergraduate Education between 1990 and 1994. *Review of Higher Education*. 21 (1), pp. 43–61.
- Kuh, G.D., Vesper, N., Connolly, M.R. and Pace, C.R. (1997) *College Student Experiences Questionnaire: Revised Norms for the Third Edition*. Bloomington, IN: Center for Postsecondary Research and Planning, School of Education, Indiana University.
- Kuh, G.D. and Whitt, E.J. (1988) *The Invisible Tapestry: Culture in American Colleges and Universities*. ASHE-ERIC Higher Education Report Vol 17 No 1. Washington DC: The George Washington University, Graduate School of Education and Human Development.
- Kuh, G.D., Whitt, E.J. and Strange, C.C. (1989) The Contributions of Institutional Agents to High Quality Out-of-Class experiences for College Students. *Paper presented at the annual meeting of the American Educational Research Association*. San Francisco, CA, 27–31 March.
- LaNasa, S.M., Cabrera, A.F. and Trangsrud, H. (2009) The Construct Validity of Student Engagement: A Confirmatory Factor Analysis Approach. *Research in Higher Education*. 50 (4), pp. 315–332.
- Leese, M. (2009) Out of Class--Out of Mind? The Use of a Virtual Learning Environment to Encourage Student Engagement in Out of Class Activities. *British Journal of Educational Technology*. 40 (1), pp. 70–77.
- Levy, S. and Campbell, H. (2007) Promoting Motivation and Engagement among Academically At Risk Students. *Widening Participation and Lifelong Learning*. 9 (3), pp. 17–25.
- Liddell, D.L. and Davis, T.L. (1996) The Measure of Moral Orientation: Reliability and Validity Evidence. *Journal of College Student Development*. 37 (5), pp. 485–493.
- Little, B., Locke, W., Scesa, A. and Williams, R. (2009) *Report to HEFCE on Student Engagement*. London: Centre for Higher Education Research and Information.
- Lizzio, A. and Wilson, K. (2006) Enhancing the Effectiveness of Self-Managed Learning Groups: Understanding Students' Choices and Concerns. *Studies in Higher Education*. 31 (6), pp. 689–703.
- Lizzio, A. and Wilson, K. (2009) Student Participation in University Governance: the Role Conceptions and Sense of Efficacy of Student Representatives on Departmental Committees. *Studies in Higher Education*. 34 (1), pp. 69–84.

- Lovatt, J., Finlayson, O.E. and James, P. (2007) Evaluation of Student Engagement with Two Learning Supports in the Teaching of 1st Year Undergraduate Chemistry. *Chemistry Education Research and Practice*. 8 (4), pp. 390–402.
- Luan, J., Zhao, C.M. and Hayek, J.C. (2009) Using a Data Mining Approach to Develop a Student Engagement-Based Institutional Typology. *IR Applications*. 18, pp. 1–19.
- MacKinnon, D. and Manathunga, C. (2003) Going Global with Assessment: What to do when the Dominant Culture's Literacy Drives Assessment. *Higher Education Research and Development*. 22 (2), pp. 131–144.
- Magolda, P. (2005) *Promoting Student Success: What Student Leaders Can Do*. Bloomington, IN: National Survey of Student Engagement.
- Mahaffey, C.J. and Smith, S.A. (2009) Creating Welcoming Campus Environments for Students from Minority Religious Groups. In: Harper, S.R. and Quaye, S.J. (eds.) *Student Engagement in Higher Education: Theoretical Perspectives and Practical Approaches for Diverse Populations*. New York and London: Routledge, pp. 81–97.
- Maier, H.R. and Rowan, T.S.C. (2007) Increasing Student Engagement with Graduate Attributes. *Australasian Journal of Engineering Education*. 13 (1), pp. 21–29.
- Mann, S.J. (2001) Alternative Perspectives on the Student Experience: Alienation and Engagement. *Studies in Higher Education*. 26 (1), pp. 7–19.
- Marks, G.N. and Coates, H.C. (2007) *Refinement of the Learning and Teaching Performance Fund Adjustment Process*. Canberra, Australia: Department of Education Science and Training (DEST).
- Markwell, D. (2007) The Challenge of Student Engagement. *Keynote address at the Teaching and Learning Forum. University of Western Australia, 30–31 January*.
- Marton, F. and Säljö, R. (1976) On Qualitative Differences in Learning - I: Outcomes and Process. *British Journal of Educational Psychology*. 46, pp. 4–11.
- McClenney, K.M. and Greene, T. (2005) A Tale of Two Students: Building a Culture of Engagement in the Community College. *About Campus*. 10 (3), pp. 2–7.
- McCormick, A.C. (2009) Toward Reflective Accountability: Using NSSE for Accountability and Transparency. *New Directions for Institutional Research*. 141 (Spring), pp. 97–106.
- McInnis, C., Griffin, P., James, R. and Coates, H.C. (2001) *Development of the Course Experience Questionnaire*. Canberra, Australia: Department of Education Science and Training (DEST).
- McInnis, C., Coates, H.C., Jensz, F., Hooper, C. and Vu, T. (2005) *Study Abroad and Study Exchange Systems in Industrialised Countries*. Canberra, Australia: Australian Education International.

- McRae, D. (2007) *Student Engagement: Attendance, Participation and Belonging*. Canberra, Australia: Department of Education, Science and Training (DEST).
- Merwin, J.C. (1969) Historical View of Changing Concepts of Evaluation. In: Tyler, R.L. (ed.) *Educational Evaluation: New Roles, New Methods*. 68th Yearbook of the National Society for the Study of Education, Part II. Chicago: University of Chicago Press.
- Milem, J.F. and Berger, J.B. (1997) A Modified Model of College Student Persistence: Exploring the Relationship between Astin's Theory of Involvement and Tinto's Theory of Student Departure. *Journal of College Student Development*. 38 (4), pp. 387–400.
- Mills, C.W. (1959) *The Sociological Imagination*. Harmondsworth: Penguin.
- Moore, S., Armstrong, C. and Pearson, J. (2008) Lecture Absenteeism among Students in Higher Education: A Valuable Route to Understanding Student Motivation. *Journal of Higher Education Policy and Management*. 30 (1), pp. 15–24.
- Mullen, C.A. (2000) Linking Research and Teaching: a Study of Graduate Student Engagement. *Teaching in Higher Education*. 5 (1), pp. 5–21.
- Nair, C.S., Adams, P. and Mertova, P. (2008) Student Engagement: The Key to Improving Survey Response Rates. *Quality in Higher Education*. 14 (3), pp. 225–232.
- National Survey of Student Engagement (NSSE) (2002) *From Promise to Progress: How Colleges and Universities are using Student Engagement results to improve Collegiate Quality*. Bloomington, IN: Indiana Center for Postsecondary Research.
- National Survey of Student Engagement (NSSE) (2007) *Experiences that Matter: Enhancing Student Learning and Success*. Bloomington, IN: Indiana Center for Postsecondary Research.
- National Survey of Student Engagement (NSSE) (2009a) *Assessment for Improvement: Tracking Student Engagement Over Time. Annual Results 2009*. Bloomington, IN: NSSE.
- National Survey of Student Engagement (NSSE) (2009b) *Using NSSE to Assess and Improve Undergraduate Education: Lessons from the Field*. Bloomington, IN: NSSE.
- Neumann, D.L. and Hood, M. (2009) The Effects of Using a Wiki on Student Engagement and Learning of Report Writing Skills in a University Statistics Course. *Australasian Journal of Educational Technology*. 25 (3), pp. 382–398.
- Nichols, A.H. and Quaye, S.J. (2009) Beyond Accommodation: Removing Barriers to Academic and Social Engagement for Students with Disabilities. In: Harper, S.R. and Quaye, S.J. (eds.) *Student Engagement in Higher Education: Theoretical Perspectives and Practical Approaches for Diverse Populations*. New York and London: Routledge, pp. 39–59.

- Nulty, D.D. and Meyers, N.M. (2002) Assessment and Student Engagement: Some Principles. Paper presented at the Learning Communities and Assessment Cultures Conference organised by the EARLI Special Interest Group on Assessment and Evaluation. Northumbria University, 28–30 August.
- Pace, C.R. (1980) Measuring the Quality of Student Effort. *Current Issues in Higher Education*. 2, pp. 10–16.
- Pace, C.R. (1984) *Measuring the Quality of College Student Experiences. An Account of the Development and Use of the College Student Experience Questionnaire*. Los Angeles, CA: Higher Education Research Institute.
- Pace, C.R. (1990) *The Undergraduates: A Report of their Activities and College Experiences in the 1980s*. Los Angeles, CA: Center for the Study of Evaluation, UCLA Graduate School of Education.
- Pace, C.R. (1995) From Good Practices to Good Products: Relating Good Practices in Undergraduate Education to Student Achievement. Paper presented at the 35<sup>th</sup> Association for Institutional Research Annual Forum. Boston, 28–31 May.
- Pascarella, E.T. (1985) College Environmental Influences on Learning and Cognitive Development: A Critical Review and Synthesis. In: Smart, J.C. (ed.) *Higher Education: Handbook of Theory and Research*. New York: Agathon, pp. 1–62.
- Pascarella, E.T. (2001) Using Student Self-Reported Gains to Estimate Collegiate Impact: A Cautionary Tale. *Journal of College Student Development*. 42 (5), pp. 488–492.
- Pascarella, E.T., Duby, P.D., Terenzini, P.T. and Iverson, B.K. (1983) Student-Faculty Relationships and Freshman Year Intellectual Growth in a Nonresidential Setting. *Journal of College Student Development*. 24 (5), pp. 395–402.
- Pascarella, E.T., Edison, M., Nora, A., Hagedorn, L.S. and Terenzini, P.T. (1996) Influences on Students' Openness to Diversity and Challenge in the First Year of College. *Journal of Higher Education*. 67 (2), pp. 174–195.
- Pascarella, E.T., Seifert, T.A. and Blaich, C. (2010) How Effective Are the NSSE Benchmarks in Predicting Important Educational Outcomes? *Change: The Magazine of Higher Learning*. 42 (1), pp. 16–22.
- Pascarella, E.T. and Terenzini, P.T. (1991) *How College Affects Students: Findings and Insights from Twenty Years of Research*. San Francisco: Jossey-Bass.
- Pascarella, E.T. and Terenzini, P.T. (2005) *How College Affects Students: A Third Decade of Research (Vol. 2)*. San Francisco: Jossey-Bass.
- Peltier, G.L., Laden, R. and Matranga, M. (1999) Student Persistence in College: A Review of Research. *Journal of College Student Retention*. 1 (4), pp. 357–375.

- Pike, G.R. (1999) The Effects of Residential Learning Communities and Traditional Residential Living Arrangements on Educational Gains during the First Year of College. *Journal of College Student Development*. 40 (3), pp. 269–284.
- Pike, G.R. (2000) The Influence of Fraternity or Sorority Membership on Students' College Experiences and Cognitive Development. *Research in Higher Education*. 41 (1), pp. 117–139.
- Pike, G.R. (2006a) The Dependability of NSSE Scalelets for College- and Department-level Assessment. *Research in Higher Education*. 47 (2), pp. 177–195.
- Pike, G.R. (2006b) The Convergent and Discriminant Validity of NSSE Scalelet Scores. *Journal of College Student Development*. 47 (5), pp. 551–564.
- Pike, G.R. and Killian, T.S. (2001) Reported Gains in Student Learning: Do Academic Disciplines Make a Difference? *Research in Higher Education*. 42 (4), pp. 429–454.
- Pike, G.R., Kuh, G.D. and Gonyea, R.M. (2003) The Relationship Between Institutional Mission and Students' Involvement and Educational Outcomes. *Research in Higher Education*. 44 (2), pp. 243–263.
- Pike, G.R. and Kuh, G.D. (2005) A Typology of Student Engagement for American Colleges and Universities. *Research in Higher Education*. 46 (2), pp. 185–209.
- Pike, G.R., Schroeder, C.C. and Berry, T.R. (1997) Enhancing the Educational Impact of Residence Halls: The Relationship between Residential Learning Communities and First Year College Experiences and Persistence. *Journal of College Student Development*. 38 (6), pp. 609–621.
- Pike, G.R., Smart, J.C., Kuh, G.D. and Hayek, J.C. (2006) Educational Expenditures and Student Engagement: When Does Money Matter? *Research in Higher Education*. 47 (7), pp. 847–872.
- Quaye, S.J. and Baxter Magolda, M.B. (2007) Enhancing Racial Self-Understanding through Structured Learning and Reflective Experiences. *New Directions for Student Services*. 120 (Winter), pp. 55–66.
- Quaye, S.J. and Harper, S.R. (2007) Faculty Accountability for Culturally-Inclusive Pedagogy and Curricula. *Liberal Education*. 93 (3), pp. 32–39.
- Quaye, S.J., Tambascia, T.P. and Talesh, R.A. (2009) Engaging Racial/Ethnic Minority Students in Predominantly White Classroom Environments. In: Harper, S.R. and Quaye, S.J. (eds.) *Student Engagement in Higher Education: Theoretical Perspectives and Practical Approaches for Diverse Populations*. New York and London: Routledge, pp. 157–177.
- Rest, J.R. (1993) Research on Moral Judgment in College Students. In: Garrod, A. (ed.) *Approaches to Moral Development*. New York: Teachers College Press, pp. 201–213.



- Richardson, S. and Coates, H. (2010) *AUSSE Research Briefing*. Camberwell, Australia: Australian Council for Educational Research.
- Ross, M. and Welsh, M.P. (2007) Reflective Practitioners in First Year? E-portfolios as an Effective Tool to Promote Formative Assessment. *Paper presented at the 2007 European Conference on Educational Research*. University of Ghent, Belgium, 19–22 September.
- Rush, L. and Balamoutsou, S. (2006) Dominant Voices, Silent Voices and the Use of Action Learning Groups in HE: A Social Constructionist Perspective. *Paper presented at the British Educational Research Association Annual Conference*, University of Warwick, 6–9 September.
- Ryan, J.F. (2005) Institutional Expenditures and Student Engagement: A Role for Financial Resources in Enhancing Student Learning and Development? *Research in Higher Education*. 46 (2), pp. 235–249.
- Rypisi, C., Malcom, L. and Kim, H.S. (2009) Environmental and Developmental Approaches to Supporting Women’s Success in STEM Fields. In: Harper, S.R. and Quaye, S.J. (eds.) *Student Engagement in Higher Education: Theoretical Perspectives and Practical Approaches for Diverse Populations*. New York and London: Routledge, pp. 117–135.
- Sallee, M.W., Logan, M.E., Sims, S. and Harrington, W.P. (2009) Engaging White Students on a Multicultural Campus: Developmental Needs and Institutional Challenges. In: Harper, S.R. and Quaye, S.J. (eds.) *Student Engagement in Higher Education: Theoretical Perspectives and Practical Approaches for Diverse Populations*. New York and London: Routledge, pp. 223–241.
- Schön, D. (1983) *The Reflective Practitioner*. London: Temple Smith.
- Schueler, L.H., Hoffman, J.A. and Peterson, E. (2009) Fostering Safe, Engaging Campuses for Lesbian, Gay, Bisexual, Transgender, and Questioning Students. In: Harper, S.R. and Quaye, S.J. (eds.) *Student Engagement in Higher Education: Theoretical Perspectives and Practical Approaches for Diverse Populations*. New York and London: Routledge, pp. 61–79.
- Schuh, J.H. and Kuh, G.D. (2005) *Promoting Student Success: What Department Chairs Can Do*. Bloomington, IN: National Survey of Student Engagement.
- Scott, G. (2006) *Accessing the Student Voice: Using CEQuery to Identify What Retains Students and Promotes Engagement in Productive Learning in Australian Higher Education*. Canberra, Australia: Department of Education Science and Training (DEST).
- Shulman, L.S. (2002) Making Differences: A Table of Learning. *Change*. 34 (6), pp. 36–44.

- Sibeon, R. (2007) *Contemporary Sociology & Policy Analysis*. Eastham: Tudor Business Publishing.
- Silverman, S.C., Aliabadi, S. and Stiles, M. (2009) Meeting the Needs of Commuter, Part-Time, Transfer, and Returning Students. In: Harper, S.R. and Quaye, S.J. (eds.) *Student Engagement in Higher Education: Theoretical Perspectives and Practical Approaches for Diverse Populations*. New York and London: Routledge, pp. 223–243.
- Skinner, E. (2009) Using Community Development Theory to Improve Student Engagement in Online Discussion: A Case Study. *ALT J Research in Learning Technology*. 17 (2), pp. 89–100.
- Slocum, J. and Rhoads, R.A. (2009) Faculty and Student Engagement in the Argentine Grassroots Rebellion: Toward a Democratic and Emancipatory Vision of the University. *Higher Education*. 57 (1), pp. 85–105.
- Stage, F.K. and Hossler, D. (2000) Where is the Student? Linking Student Behaviours, College Choice, and College Persistence. In: Braxton, D.M. (ed.) *Reworking the Student Departure Puzzle*. Nashville, TN: Vanderbilt University Press, pp. 170–195.
- Strange, C.C. and Banning, J.H. (2001) *Educating by design: Creating Campus Learning Environments that Work*. San Francisco: Jossey-Bass.
- Sumner, J. (2008) From Academic Imperialism to the Civil Commons: Institutional Possibilities for Responding to the United Nations Decade of Education for Sustainable Development. *Interchange*. 39 (1), pp. 77–94.
- Swail, W.S., Redd, K.E. and Perna, L.W. (2003) *Retaining Minority Students in Higher Education: A Framework for Success*. ASHE-ERIC Higher Education Report, Vol 30 No 2. San Francisco: Jossey-Bass.
- Ten Yew, S. and Farrell, L. (2001) The Root of the Confusion: Identity. In: Chanock, K. (ed.) *Sources of Confusion: Refereed Proceedings of the National Language and Academic Skills Conference, La Trobe University*. Melbourne, Australia: La Trobe University Academic Skills Unit.
- Terenzini, P.T., Pascarella, E.T. and Blimling, G.S. (1996) Students' Out-of-Class Experiences and Their Influence on Learning and Cognitive Development: A Literature Review. *Journal of College Student Development*. 37 (2), pp. 149–162.
- Teune, H. (2001) *Universities as Sites of Citizenship and Civic Responsibility: United States Study*. Philadelphia, PA: International Consortium for Higher Education Civic Responsibility & Democracy.
- Thomas, L. and Quinn, J. (2006) *First Generation Entry into Higher Education: An International Study*. Maidenhead: Open University Press.

- Thornton, C.H. and Jaeger, A.J. (2007) A New Context for Understanding Civic Responsibility: Relating Culture to Action at a Research University. *Research in Higher Education*. 48 (8), pp. 993–1019.
- Tinto, V. (1987) *Leaving College: Rethinking the Causes and Cures of Student Attrition*. 1st ed. Chicago, IL: University of Chicago Press.
- Tinto, V. (1993) *Leaving College: Rethinking the Causes and Cures of Student Attrition*. 2nd ed. Chicago, IL: University of Chicago Press.
- Tinto, V. (2000) Taking Retention Seriously: Rethinking the First Year of College. *NACADA Journal*. 19 (2), pp. 5–10.
- Tinto, V. (2005) Moving from Theory to Action. In: Seidman, A. (ed.) *College Student Retention: Formula for Student Success*. Washington DC: ACE & Praeger, pp. 317–333.
- Torres, V., Howard-Hamilton, M.F. and Cooper, D.L. (2003) *Identity Development of Diverse Populations: Implications for Teaching and Administration in Higher Education*. *ASHE-ERIC Higher Education Report*, Vol 29, No 6. San Francisco: Jossey-Bass.
- Tross, S.A., Harper, J.P., Osherr, L.W. and Kneidinger, L.M. (2000) Not Just the Usual Cast of Characteristics: Using Personality to Predict College Performance and Retention. *Journal of College Student Development*. 41 (3), pp. 325–336.
- Trowler, P. (1998) *Academics Responding to Change: New Higher Education Frameworks and academic Cultures*. Buckingham: Open University Press/ SRHE.
- Trowler, P. and Wareham, T. (2008) *Tribes, Territories, Research and Teaching: Enhancing the Teaching-Research Nexus*. York: Higher Education Academy.
- Umbach, P.D. and Wawrzynski, M.R. (2005) Faculty Do Matter: The Role of College Faculty in Student Learning and Engagement. *Research in Higher Education*. 46 (2), pp. 153–184.
- Villalpando, O. (2002) The Impact of Diversity and Multiculturalism on All Students: Findings from a National Survey. *NASPA Journal*. 40 (1), pp. 124–144.
- Waller, R. (2006) ‘I don’t feel like “a student”, I feel like “me”’: The Over-Simplification of Mature Learners’ Experiences. *Research in Post-Compulsory Education*. 11 (1), pp. 115–130.
- Warde, A. (2005) Consumption and Theories of Practice. *Journal of Consumer Culture*. 5 (2), pp. 131–153.
- Zhao, C. and Kuh, G.D. (2004) Adding Value: Learning Communities and Student Engagement. *Research in Higher Education*. 45 (2), pp. 115–138.





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