

# Women Directors on Corporate Boards: A Review and Research Agenda

Siri Terjesen\*, Ruth Sealy and Val Singh

## ABSTRACT

**Manuscript Type:** Review

**Research Question/Issue:** This review examines how gender diversity on corporate boards influences corporate governance outcomes that in turn impact performance. We describe extant research on theoretical perspectives, characteristics, and impact of women on corporate boards (WOCB) at micro, meso, and macro levels: individual, board, firm, and industry/environment.

**Research Finding/Results:** To the best of our knowledge, this is the first comprehensive review of WOCBs, incorporating and integrating research from over 400 publications in psychology, sociology, leadership, gender, finance, management, law, corporate governance, and entrepreneurship domains. In addition, we organized our findings to provide a new lens enabling the field to be readily examined by level and by theoretical perspective. The review indicates that WOCB research is about improving corporate governance through better use of the whole talent pool's capital, as well as about building more inclusive and fairer business institutions that better reflect their present generation of stakeholders.

**Theoretical Implications:** With only one in 10 papers addressing theoretical development, the predominant perspectives are human and social capital theories and gender schema at the individual level; social identity, token, and social networks theories at board level; resource dependency, institution, and agency theories at the firm level; and institutional, critical, and political theories at the environmental level. We provide a short synopsis of findings at each level, and conclude with an outline of fruitful directions for future research.

**Practical Implications:** There are increasing pressures for WOCBs from diverse stakeholders, such as the European Commission, national governments, politicians, employer lobby groups, shareholders, Fortune and FTSE rankings, best places for women to work lists, as well as expectations from highly qualified women who are likely to leave if they see no women board members. Rationales generally draw on the business case; however, the moral justice case is also used by those who seek a fairer gender balance in all aspects of society. From our review, the "Impact" section charts the effect of WOCB at all four levels of analysis.

**Keywords:** Corporate Governance, Corporate Boards, Gender, Theory, Characteristics, Impact, Literature Review

## INTRODUCTION

As recent corporate governance scandals and the Sarbanes-Oxley legislation, Higgs Review, and other initiatives draw attention to the importance of corporate governance, scrutiny has turned to the composition of corporate boards of directors. For example, the demise of the Icelandic bank Kaupthing led to the immediate resignation of the entire board of directors (*The Age*, 2008). In the wake of the failure of other financial institutions, such as Lehman Brothers, investors, governments, and concerned parties around the world are demanding answers to questions such as that posted in two separate official blogs of

*Wall Street Journal* and *Business Week*, "Where was Lehman's Board?" (Berman, 2008; Thornton, 2008). While the market plunge has highlighted media coverage on the directors of the board, practitioners and academics have long followed board composition, including the slow advancement of women onto corporate boards, despite nearly 40 years of equal opportunities policies. A Google search reveals 340,000 webpages for female or women corporate board directors, including 25,400 webpages in Google Scholar. Extant research emerges from an interdisciplinary academic community, across psychology, sociology, leadership, gender, finance, management, law, corporate governance, and even entrepreneurship. It is timely therefore to pull together research on the nature and impact of gender diversity in board composition as a facet of corporate governance.

\*Address for correspondence: 1309 E. 10th St, Bloomington, IN 47405, USA. E-mail: siritjerjesen@yahoo.com

TABLE 1  
Women on Corporate Boards: Review Structure

	Theory	Characteristics	Impact
<b>Individual</b>	Human Capital	Demographics	Tokens and minority members
	Status Characteristics	Social Capital	Role models
	Gender Self-Schema	Human Capital	Diversity supporters
<b>Board</b>	Social Identity	Structure and Size	Governance performance
	Social Network and Social Cohesion	Roles	Decision making
	Gendered Trust	Composition	Behaviors and culture
	Ingratiation		Independence
	Leadership		Skills, knowledge and experience
<b>Firm</b>	Resource Dependency	Size	Financial performance (announcements, "glass cliff" effect)
	Institutional	Stakeholder distribution	Shareholders and ethical investors
	Agency	Performance	Corporate responsibility and philanthropy
			Organizational legitimacy and corporate reputation
			Other women (networks, mentors, inspirational role models)
			Recruitment and retention
<b>Industry and Environment</b>	Institutional	International differences	Citizens
	Critical Management	Within-country differences	Talent
		Private vs Public initiatives	Symbols in media
		Cultural attitudes, infrastructure and public policy	
		Economic environment	

Female representation in corporate decision making is an important issue for policymakers. For example, the Norwegian government requires that boards of directors of publicly held firms be comprised of at least 40 per cent women (Hoel, 2008) and the Spanish government has committed to 40 per cent by 2015 (De Anca, 2008). Around the world, other countries are considering legislation while developing economies, such as India and China, and Middle East countries (Tunisia and Jordan) are beginning to recognize the importance of developing female talent up to the board level (Singh, 2008a).

To the best of our knowledge, this is the first comprehensive review of extant research on women on corporate boards (WOCB). We reviewed over 400 published references, including articles, book chapters, working papers, and reports. The literature was identified through EBSCO, ProQuest, and Google Scholar searches. In-press and working papers were solicited by e-mail from 40 scholars of gender and corporate governance who recently published in leading journals or presented papers at conferences.

In the following sections, we review the literature on women directors in three key areas: theoretical perspectives, characteristics, and impact. We recognize that there are additional areas, such as initiatives to promote women to directorships; however we consider these outside the scope of our study.<sup>1</sup> A final section suggests directions for future

studies in existing research streams, as well as major recommendations for new research agendas.

We explore each major theme across four micro, meso, and macro levels – individual, board, firm, and industry/environment. By individual, we refer to the individual director, or aspirant director. The board level captures the processes and interactions that occur within the team. We use the "firm" category to describe experiences in other parts of the firm, outside the board, and also firm strategy and structure. Industry/environment captures the local, regional, and national industrial and external environments. While these categories are overlapping, given the fluid nature of business, we hope this structure guides our reader and aids future researchers. Table 1 provides an overview of the review.

## THEORETICAL PERSPECTIVES

The vast majority of academic literature on WOCBs (approximately 160 of 180 published articles, working papers, and book chapters reviewed) does not explicitly develop a theoretical framework. Indeed, the majority of WOCB literature is descriptive.<sup>2</sup> We identified 20 theory-based studies of the phenomenon of women on boards that employ a variety of frameworks at micro, meso, and macro levels. The major theoretical perspectives, and, in most cases

a short synopsis of findings, are described below. Consistent with the feminist mode of inquiry, most studies explore theoretical perspectives on what forces explain women's underrepresentation on corporate boards. Several theories bridge two or more levels of analysis. For example, gender self-schema is an individual perception that can be manifested in groups, firms, industries, and the broader institutional environment. Some studies incorporate two or more theoretical perspectives. For example, Burke and Nelson (2002) examine how a combination of individual and organizational factors explains the exclusion of talented women from top management.

## Individual

At the individual level, theoretical perspectives tend to focus on the characteristics of WOCBs (e.g., human capital, status characteristics, social capital) and the individual's gender-based perceptions (e.g., self-schema, trust).

**Human Capital.** Human capital theory (Becker, 1964) examines the role of an individual's cumulative stocks of education, skills, and experience in enhancing cognitive and productive capabilities that benefit the individual and his/her organization. Compared to men, women have traditionally made fewer investments in education and work experience and this is reflected in lower pay and promotion (Tharenou, Latimer and Conroy, 1994). Directors bring unique human capital to the board (Kesner, 1988) and individuals must obtain extensive stocks of human capital in order to be considered for directorships (Kesner, 1988). Gatekeepers, who are mostly male, do not offer women the same organizational rewards, such as training and development, nor promotion and pay (Oakley, 2000). A commonly held assumption of board selectors is that women lack adequate human capital for board positions (Burke, 2000). Singh, Terjesen and Vinnicombe (2008) dispel this myth in their study of multiple human capital dimensions of new directors of the FTSE<sup>3</sup> 100 firms in the UK, finding that women are more likely to have MBA degrees and international experience. Furthermore, compared to their male counterparts, new female directors are significantly more likely to have experience as smaller firm board directors, but less likely to have CEO/COO experience.

Human capital theory has been extended in other meaningful ways.<sup>4</sup> For example, Westphal and Milton (2000) examine the role of a director's prior experience on his/her ability to avoid out-group biases and to exert influence on the board, finding that women are significantly less likely to have focal director experience in the majority and to exert influence. Shrader, Blackburn and Iles (1997) leverage resource-based theories of competitive advantage to describe human capital as a key resource for the firm, bringing diversity perspectives that facilitate team problem solving.

**Status Characteristics.** Status characteristics theory describes how standards of ability for low-status groups (such as women) are higher than for high-status group members (e.g., men). Thus, to be perceived as being of high ability, a woman must provide more evidence than would her male

counterpart (Biernat and Kobrynowicz, 1997). Considering this theory in parallel with women's traditional "outsider" status, Hillman, Cannella, and Harris (2002) find that women directors are significantly more likely to have an advanced degree than their male counterparts.

**Gender Self-Schema.** Self-schema is an individual's psychological construction of self, based on a number of aspects, most commonly gender. Gender self-schemas are developed from childhood and serve as mental models through which information is processed. Generally, male gender self-schemas are based on roles, norms, values, and beliefs that are considered appropriate for men, such as income provider, dominance, aggression, achievement, autonomy, exhibition, and endurance (Konrad, Ritchie, Lieb and Corrigan, 2000). In contrast, female gender self-schemas are largely based on roles, norms, values, and beliefs held about women such as homemaker, affiliation to others, nurturance, deference, and abasement (Konrad *et al.*, 2000). These self-schemas are present from the point at which male and female graduates evaluate and enter the workplace (Terjesen, Freeman and Vinnicombe, 2007). Gatekeepers have views of gender-appropriate behaviors, roles, and expectations that may bias executive selection (Oakley, 2000).

## Board

At the board level, theory focuses on group-level processes such as social identity, homophily, and in-out groups. While composition is important, board processes may be even more critical to performance (Huse, 2005).

**Social identity.** Several related theories of social groups (e.g., attraction-selection-attrition, homophily) explore how individuals seek to surround themselves with people who share similar demographic profiles, perspectives, and values, which are then reinforced in intragroup communication. Tajfel and Turner's (1986) social identity theory describes how individuals define themselves according to their membership in certain groups such as gender, race, class, and occupation. Individuals consider themselves and others as either in- or out-group members and are more likely to provide higher evaluations of in-group members, making it more difficult for out-group individuals to join these groups.

These theoretical frameworks have been used, independently or in parallel, to describe women's exclusion from social networks. For example, Kanter's (1977) work on homosocial reproduction highlights how individuals in powerful positions replicate male-dominated power structures in corporations. Leveraging theories of homosocial reproduction, Daily and Dalton (1995) describe how CEOs, who are mostly men, are more likely to lead boards composed of like others, of similar gender, as well as age, background, and experience.

Following Kanter's (1977) work on tokenism, Erkut, Kramer and Konrad (2008) explore three dimensions of numerical representation of women – one woman, two women, and three women. Drawing on Asch's (1951) conformity theory and the role of vision, they describe how a critical mass of three or more women creates "normaliza-

tion" where gender is no longer a barrier to communication and where women directors are more likely to feel comfortable, supported, and freer to raise issues and be active.

Westphal and Milton (2000) explore the idea that social exclusion due to minority status (e.g., as a woman) could be overcome through ingratiation behavior. Social identity, social network, and cohesion theories have also been put forward as possible explanations for the paucity of women on boards (Singh and Vinnicombe, 2004).

**Social Network and Social Cohesion.** The elite group can be seen as a social network. Social network theory predicts that individuals with access to resources valuable to the company are likely to have the best chance of entering the elite network. Directors are nodes in a network of organizational linkages, and contribute resources such as information and knowledge to their board, their organization, and to other members of the network, sharing power and acting as a socially cohesive group (Westphal and Zajac, 1995; Windolf, 1998). A board is a privileged closed group with its own rules and ways of thinking. Directors facilitate invitations to join other boards, by recommending and sponsoring colleagues like themselves, whom they know are likely to fit the existing mold. As powerful positions are a marker of relevant experience, contacts, and endorsement, those who have held CEO positions are particularly attractive to the network. Hillman *et al.* (2002) take a network theory perspective in examining how firms may wish to increase their odds of acquiring resources and surviving by becoming more central in networks and linkages to other firms. Their subsample of 89 white female and 99 white male board members reveals that women directors are more likely to join subsequent boards at faster rates than their male counterparts.

**Gendered Trust.** Another line of recent psychological theory enquiry is trust. Bigelow and Parks (2006) leverage gendered theories of trust to explore board relationships. While trust is variously defined in the literature, scholars in many fields identify gender differences, for example in trusting behavior, with men more likely to have the basis of their trust in others, particularly shared group status (collective trust), and women more likely to trust both on this collective trust as well as on the basis of a personal relationship (relationship trust) (Maddux and Brewer, 2005). Building on research highlighting that women have identifiable traits that make them well positioned for roles that require trust, Bigelow and Parks (2006) report that investors are willing to invest 300 per cent more in male-led firms than in female-led firms.

**Ingratiation.** Within the social psychology literature, an important dimension of interpersonal influence is ingratiation behavior to enhance one's attractiveness and gain favor with others. Following studies linking ingratiation to career success, Westphal and Stern's (2006) survey of 1012 top managers of Forbes 500 firms reveals that top managers who display ingratiation behavior toward their CEO are more likely to be appointed to boards of other firms where their CEO is a director or is indirectly connected through a board

interlock network. This behavior can help overcome the barrier of demographic minority status such as gender.

**Leadership.** While not directly developing the research on gender in corporate board processes, Huse and Solberg's (2006) interviews with eight WOCBs reveal the importance of nurturing contacts, preparing for meetings, and creating alliances, as well as their observations about the presence of power games and unequal decision making in the process. Huse (2008) develops a conceptual framework that describes how board leadership, structures, development activities, culture, and levels of openness mediate the influence of women directors on task performance. Furthermore, Huse (2008) proposes that women will make specific contributions if they have backgrounds, personalities, and behaviors that are different from men on the board and if they are perceived and treated as different from their male counterparts.

### Firm

At the firm level, common perspectives include resource dependency, institutional, and agency theories.

**Resource Dependency.** A number of studies employ a resource dependency lens that views firms as operating in an open system and needing to exchange and acquire certain resources in order to survive, creating a dependency between the firm and external units. Within the corporate governance literature, firms seek linkages with the most beneficial resources and structure membership on the corporate board on this basis. Building on Pfeffer and Salancik's (1978) arguments that board linkages provide advice/counsel, legitimacy, and communication channels, scholars highlight the important resources from directors' human capital and social capital.

Diversity scholars use the resource dependency framework to argue that today's increasingly complex and uncertain environment requires leadership from individuals who can provide a breadth of resources including prestige, legitimacy, financing, industrial/functional/geographic knowledge, and diversity. For example, Siciliano (1996) reports that YMCA boards with increased gender diversity are more likely to enjoy high levels of social agency mission achievement, but less likely to achieve fundraising goals, and there is no relationship to operating efficiency.

Hillman, Cannella, and Paetzold (2000) significantly extend resource dependency theory to diversity on boards, outlining four director types: "insiders," "business experts," "support specialists," and "influentials."<sup>5</sup> Female directors of Fortune 1000 boards are more likely to have non-business backgrounds, to hold advanced degrees, and to join many boards at a faster rate than their white male counterparts (Hillman *et al.*, 2002). Women's representation on boards is linked to organization size, industry type, firm diversification strategy, and the network effects of linkages to other boards with female directors (Hillman, Shropshire and Cannella, 2007). Peterson and Philpot (2007) leverage resource dependency theory and the director taxonomy to examine the likelihood for female and male directors' odds of being appointed to a standing committee, finding that women's

resource dependency linkages lead them to be more likely to be appointed to certain committees, but not others.

**Institutional.** Building on institutional perspectives of achieved legitimacy from the promotion of women to strategic positions in management, Bilimoria (2000) argues that a female board member presence signals that a corporation values the success of its women. Bilimoria (2006) extends institutional legitimacy theory to explore the relationship between the presence of women on boards and the presence of women at multiple levels in the company, finding a positive relationship between female corporate board members and the following: number of women officers; number of women officers holding line jobs; presence of a critical mass of women officers; women officers with high-ranking or "clout" titles; and women among the top corporate earners.

**Agency.** Most corporate governance research takes an agency theory approach (Aguilera, Filatotchev, Gospel, and Jackson, 2008). Agency theory describes the relationship between a principal (e.g., shareholder) and the agent of the principal (e.g., directors and managers), often considering the costs of resolving conflicts and aligning interests across groups. A common assumption in agency theory is that outside directors will act independently from their inside director counterparts and will act as good monitors for shareholders' interest. Carter, Simkins and Simpson (2003) draw on agency theory to explore the link between gender diversity on a board and firm value, finding a positive relationship between the percentage of gender diversity on Fortune 1000 boards and firm value.

### Industry and Environment

We could not identify any extant theory-based research at the industry level. Research at the environment level most commonly examines the role of institutions.

**Institutional.** Terjesen and Singh (2008) explore the role of the social, political, and economic structures in the institutional environment on women's share of representation on corporate boards. Their 43 country study reveals that countries with a higher representation of women on boards are more likely to have women in senior management and more equal ratios of male to female pay. However, countries with a shorter tradition of women's political representation are less likely to have high proportions of WOCBs.

The perspective of gender is not only an individual property, but also as an institution embedded in the workplace, occupations, and occupational environments through formally defined rules, roles, and responsibilities and the "habitus" of mental structures through which individuals think about their social world. Talmud and Izraeli (1999) argue that these influences are not easily eliminated.

Nelson and Levesque (2007) highlight the presence of institutional factors such as occupational sex discrimination, childcare responsibilities, stereotypes, and gender schemas that may influence the presence of women on boards of high-growth and high potential firms undergoing initial

public offering, but do not test these ideas in their empirical study. It is important to acknowledge the interrelationships among these theories. For example, the institutionalized expectation that women should fulfill caring responsibilities presents a major barrier for women seeking to combine career and motherhood, or increasingly, elder care.

**Critical Management.** Adams and Flynn (2005) take an innovative and multi-dimensional critical theory approach to better understand how established processes can restrain change in terms of gender representation on corporate boards. They identify constraining factors at individual, group (e.g., psychological perspectives), firm, and external environment levels and use the knowledge creation framework to describe how individuals create actionable knowledge through structural, cognitive, and relational dimensions of board members and their networks.

## CHARACTERISTICS

A large body of census research, predominantly conducted in Western countries, reports basic characteristics. This section reviews literature along the four levels.

### Individual

**Demographics.** Since the 1990s, a substantial body of literature considers the demographics. A consistent finding is that women directors are significantly younger than their male counterparts, with comparisons in the range of 53 years for the UK's FTSE 100 female directors, compared to 56 for males (Sealy, Singh, and Vinnicombe, 2007). Australian statistics are similar; women's average age is 53 and men's is 61 (Ross-Smith and Bridge, 2008). Peterson and Philpot's (2007) US Fortune 500 study reports women and men's average ages to be 56 and 60 respectively. Burgess and Tharenou's (2002) meta-analysis of Australian, US, and Canadian studies find that between 65 and 71 per cent of women directors are married. Earlier, Burke and Kurucz (1998) find just 47 per cent of women directors are married. Women directors with children comprise 44 per cent in Australia and 70 per cent in the US and Canada, although the Australian sample includes dependent children (Burgess and Tharenou, 2002). Women insiders hold fewer directorships, have less powerful titles, occupy more staff positions, and earn less than men (Zelechowski and Bilimoria, 2004).

**Social Capital.** In the 1980s and 1990s, UK female directors were significantly more likely to have a title than male directors, whether academic (Dr., Professor), aristocratic (Lady, Honorable), or civic or political (Dame, Baroness); however this is not the case presently (Sealy *et al.*, 2007). In the US, there is a preference for "branded women" directors, i.e., those with Ivy League universities, signaling upper class status (Mattis, 2000). In a study of women directors in the Middle East, Singh (2008a) notes that the majority of Jordan's women directors are connected to the controlling or founding family, signaling the importance of "wasta" ("connections").

Westphal and Milton (2000) examine how network ties affect minority directors' influence on the rest of the board, finding that a minority director with previous board experience can mitigate out-group biases. Minority directors can build social network ties with other directors, enabling them to create the perception of similarity with the majority (Westphal and Milton, 2000). In Australia, women who successfully obtain board positions have long-standing, close relationships with other female directors (Sheridan, 2001).

**Human Capital.** Hillman *et al.*, (2000) develop a taxonomy of four director roles based on human capital experience: insiders, business experts, specialists, and community influentials. Women and African-American Fortune 500 firm directors are more likely to have non-business backgrounds, hold advanced degrees, and join boards at a faster rate than their white male counterparts (Hillman *et al.*, 2002). Minority groups who gain post-graduate qualifications can compensate for effects of discrimination and subjective bias in selection procedures (Hillman *et al.*, 2002).

Peterson and Philpot (2007) conclude that the women currently holding 13.2 per cent of US Fortune 500 directorships are as highly qualified as men, coming from various positions of power and authority in public and private organizations (Branson, 2006), government, law firms, not-for-profit organizations, and academia. The proportion of men and women categorized as business experts or support specialists (67.1 per cent versus 66.8 per cent) is not significantly different. Singh *et al.* (2008) profile human capital of FTSE 100 board appointments, finding female appointees are more likely to hold an MBA degree and have minor board experience, and somewhat more experience on international boards. Men are somewhat more likely to have experience in CEO/COO/MD roles and women are significantly less likely to be executive directors (EDs) (3.6 per cent), but no less likely to be *business experts* (Singh *et al.*, 2008). Both UK and US studies show that women are more likely than men to be *community influentials* (Hillman *et al.*, 2007; Singh *et al.*, 2008). A somewhat unexpected finding in Singh *et al.*'s study was that almost 25 per cent of women appointed in 2001 to 2004 already had FTSE 100 board experience. Women hold significantly more multiple directorships; 5 per cent of women, but <1 per cent of men have two or more seats (Sealy *et al.*, 2007). The recycling of a small group of women means that they become extremely experienced as directors. But the recycling perpetuates only a small group of women candidates. For example, of 150 new director appointments in 2007, while 30 (20 per cent) went to women, only five had not previously held a FTSE board position. Farrell and Hersch (2005) suggest the overrepresentation of women with multiple directorships is an argument for a shortage of supply, indicative of a limited number of qualified candidates.

Of Canada's 278 female directors, 90 per cent are university graduates and approximately 25 per cent have one or more professional designations. However, while the majority are full-time employees (57 per cent), 13 per cent own businesses, 21 per cent serve as independent consultants, and about half were less than 45 years old (Burke, 1995). Peterson and Philpot (2007) find that female Inside Directors (IDs) are significantly more likely to be founder or family

members (45.5 per cent) than are male IDs (12.9 per cent), suggesting perhaps that thwarted by a lack of career progression, women leave to start their own businesses. Nelson and Levesque (2007) report that women in high-growth, high-potential firms achieve executive roles at a younger age than women in Fortune 500, but so do men.

Evidence from the US and UK clearly refutes the claim that women lack the "right" human capital for directorships. Women directors' combination of human capital assets differs from traditional (and generally more male) accumulation, but brings added value to boards. However, regardless of the reality, several studies reveal that it is the perceptions of women that are also often a problem. For example, Mattis (2000) cites a Catalyst 1993 survey in which CEOs fear appointing a woman to the board due to a belief that women are unqualified (Burke, 1997) and a concern that they will have a "women's agenda." In addition, CEOs are afraid to appoint women not currently holding a directorship, but do not hold the same fear for men (Peterson and Philpot, 2007). Although Heilman and Haynes (2005) present evidence that prior work experience can counteract negative expectations of a woman's performance, women are presumed to be less competent than men (by both men and women) in a male-dominated environment (Carli, 1990). Unequivocally successful women are then disliked for contravening gender roles (Eagly and Karau, 2002), unless they can also prove their femininity or communal traits (Heilman and Okimoto, 2007). In Australia, conceptions of leadership include core values such as heroism, physical and emotional toughness, and self-reliance (Sinclair, 1998). This masculine ideology of leadership perpetuates the status quo of who looks like a leader, and the perception is that a leader is not a female.

A UK study reports that 40 per cent of CEOs believe women have not been in the pipeline long enough, compared to only 28 per cent of senior women (Catalyst and Opportunity Now, 2000). In both the UK and US there are tenure differences between male and female board members, but only of approximately two years. Zelechowski and Bilimoria (2004) point to more significant pipeline issues in their study of 40 non-CEO female and 60 non-CEO male IDs. While there are no sex differences in experience-based qualifications of board or corporate tenure, female IDs hold less powerful corporate titles, fewer multiple directorships, occupy more staff functions, and earn considerably less than male IDs, implying that women are both undervalued and underutilized in the executive suite and corporate governance (Zelechowski and Bilimoria, 2004). There are clear implications for pipeline theory, since the CEO pipeline is based on the treatment of and value given to the top IDs and women do not appear to be as well strategically placed to inherit a CEO role as their male colleagues (Zelechowski and Bilimoria, 2004).

In FTSE 100 firms, the percent of female executive committee members has increased; 60 companies now have women in their top team, totalling 16 per cent of senior executive roles (Sealy *et al.*, 2007). Women's roles have also broadened, suggesting more varied routes to the board. Whilst human resources and company secretary roles continue to dominate, there is an increasing variety of other roles for women on these committees, including divisional/regional CEO, MD, CFO, and COO.

## Board

**Structure and Size.** Several single-country studies of board level characteristics exist; however cross-country comparisons are difficult given the different corporate governance structures, for example the two-tier system of separate supervisory and executive boards in parts of continental Europe and the Middle East (Singh and Vinnicombe, 2003), and principal and acting board members in some South American countries (Mulcahy, 2008). A consistent finding is that the larger the board, the greater the number of female directors (Hyland and Marcellino, 2002; Brammer, Millington and Pavelin, 2007; Sealy *et al.*, 2007), however some countries cap the number of directors on their boards.

**Roles.** Peterson and Philpot (2007) extend earlier studies (Kesner, 1988; Bilimoria and Piderit, 1994) that suggest that men and women have different board roles, with women less likely to serve on key committees. While women are less likely to be on executive committees and more likely to be on public affairs committees, gender is no longer a significant factor in the likelihood of being on the nomination, compensation, finance, or audit committees (Peterson and Philpot, 2007). In Fortune 500 firms, women IDs hold 6 per cent of the seats. Again, care must be taken when making international comparisons, as this ID figure of 6 per cent represents 6 per cent of all female-held board seats. In the UK, female EDs hold 3.6 per cent (2007) of the total number of ED seats (Sealy *et al.*, 2007). Using the comparable figure of the female-held seats, the percentage is 10.7 per cent.

**Composition.** Corporate governance reforms in the US and recommendations made in the UK by the Higgs Review (2003) have resulted in a better balance between executive and non-executive positions and greater diversity (Arfken, Bellar and Helms, 2004). For example, in the UK, 2007 witnessed the lowest number of executive and total directorships in recent history, suggesting keen competition for executive seats (Sealy, Singh and Vinnicombe, 2008b). This is often cited, however, as an explanation of why women have achieved non-executive director (NED), but not ED, roles.<sup>6</sup> Daily, Certo and Dalton (1999) track changes in Fortune 500 WOCBs between 1987 to 1996, noting a significant increase in the number of female directors and the number of companies with female directors, but no increase in the number of female CEOs (2) and a decline (from 11 to 8) in the number of female IDs. Given that a stint on a board as an ID/ED is the most common route to being a CEO, Daily *et al.* (1999) conclude that the number of female CEOs is unlikely to grow substantially in the near future. In a separate study of Fortune 500 firms in the 1990s, Farrell and Hersch (2005) report that the likelihood of a firm adding a woman to its board is significantly negatively affected by the percentage of WOCBs in the previous year. The probability is greatly increased when a female director leaves—companies are likely to want to replace a woman with another woman, clearly showing that gender impacts the choice of director. Erkut *et al.*'s (2008) interviews with 37 WOCBs, 12 CEOs, and seven company secretaries reveal different dynamics when there are one, two, or three women on the board. Academics have long challenged individualistic explana-

tions of leadership effectiveness, giving evidence of the need to have a critical mass. Erkut *et al.* (2008) discuss how dynamics move from invisibility to conspiracy to normality, and that it is only at that point that the diversity of the group appears to become a group responsibility.

## Firm

**Size.** A number of studies report correlations between a firm's size, by revenue or market capitalization, and the number of WOCBs (Burke, 2000; Hyland and Marcellino, 2002; Peterson and Philpot, 2007; Terjesen and Singh, 2008). Both in the UK and US the distribution of female directors decreases the further down the FTSE or Fortune listing, belying the myth that it is easier for women to succeed in smaller firms (Sealy, Vinnicombe and Singh, 2008a). Again, international comparisons are difficult as some countries' firms (e.g., US) are larger than others.

**Shareholder Distribution.** Stakeholder theory purports the need to take into account the wider interests of stakeholders, which is affected by the concentration of the majority or minority shareholders (Hillman, Keim and Luce, 2001; Carter *et al.*, 2003). Institutional investors can compel companies to greater diversity (Gillan and Starks, 2000). Kang, Chen and Gray (2007) find that shareholder concentration is significantly negatively associated with independence and gender, although not with age. They imply, therefore, that those organizations with higher shareholder concentration are not under as much pressure to promote board diversity.

**Performance.** Women directors' impact on the board is covered in the next major section of this review; here we consider performance as a firm characteristic. Women are more likely than men to serve in precarious management positions, a phenomenon Ryan and Haslam (2005; 2007) describe as the glass cliff. This organizational context makes it harder for women to perform and be perceived to perform effectively. However, Farrell and Hersch (2005) report that women tend to serve on boards of better performing firms and suggest that a shortage of supply allows women to self-select the firms, or that these firms are able to focus more on diversity goals. Fortune's top diversity-promoting firms (1998–2002) experience positive, significantly abnormal returns on the female director announcement date (Ellis and Keys, 2003). Similarly, of 353 Fortune 500 companies (1996–2000), the 88 with the highest representation of women on top management teams experienced significantly higher returns on equity and total return to shareholders compared to the 89 firms with the lowest female representation (Catalyst, 2004). Hillman *et al.* (2007) find when a firm is linked to other firms with female directors, it is more likely to have WOCBs. All this, however, is exploring a link between gender diversity and performance, not establishing causality. Shrader *et al.* (1997) describes evidence of some negative accounting measures and WOCBs, but as Erkut *et al.* (2008) also suggest, a critical number of female board members is needed before they can exert a positive influence, and most of their sample have only one female director. Nelson and Levesque (2007: 214) argue that organizations undergoing

regulatory and market review during initial public offering have a "greater opportunity and motivation to design a governance structure that responds to public concerns about independent oversight" and therefore a more diverse leadership. However, as the high-growth, high potential firm struggles to "join the big boys," it may also become institutionalized in terms of trying to look more like their aspirants, discarding distinctive practices and conforming to a norm. In their sample of 100 IPO and 100 Fortune 500 companies, Nelson and Levesque (2007) identify only one female CEO and one female board chair. There are higher percentages of WOCBs in the Fortune 500 than the IPO companies, and for technology intensive or venture-capital-backed firms, the percentages are the lowest. In the IPO firms, almost 60 per cent of executive teams and 80 per cent of boards do not have a single woman director, compared to Fortune 500 figures of 41 per cent and 14 per cent respectively.

### Industry and Environment

A number of studies present correlations between particular industry sectors and an increased number of WOCBs, e.g., retail, finance, media, banking, and health care (Fryxell and Lerner, 1989; Hyland and Marcellino, 2002; Brammer *et al.*, 2007; Hillman *et al.*, 2007; Sealy *et al.*, 2007; Joy, 2008). However, findings are inconsistent and there are discrepancies on the index of companies as to what types of organization are included. Kang *et al.* (2007) find industry type is significantly associated with independence and age, but not gender diversity.

As previously mentioned, based on resource dependency theory, one might expect more women directors in industries with a higher female workforce (Hillman *et al.*, 2007). However, the opposite is not necessarily true as Sealy *et al.* (2007) show: FTSE 100 companies in male-oriented industries (mining, oil) have women in their top positions. Brammer *et al.* (2007) also suggest that close proximity to consumers plays a more significant role in affecting board diversity than does industry workforce, reflecting the influence of a firm's external business environment.

**International Differences.** One challenge in making international comparisons is the lack of a universal set of measures. For example, the European Professional Women's Network (2008) uses a varying number of companies from each European country and takes no account of firm size or board structure. Generalizability of findings across national boundaries is difficult due to different cultural, economic, and regulatory environments (Kang *et al.*, 2007), capital markets (Joy, 2008), sample sizes (Burgess and Tharenou, 2002), and effectiveness of government mechanisms.

**Within-Country Differences.** As much as national differences, within larger nations such as the USA, there may also be significant regional differences. Goodman, Fields and Blum (2003) focus on medium to large companies in Georgia, whereas Hyland and Marcellino (2002) study Long Island, the fourth most affluent region in the US, where 31 per cent of individuals have a first degree (national average = 17 per cent) and 56 per cent of women age 16 or over

are in the workforce (national average = 48 per cent). Helms, Arfken and Bellar (2007) monitor Tennessee, with lower than national and international statistics on WOCBs and a suggestion that the American South is less accepting of gender diversity.

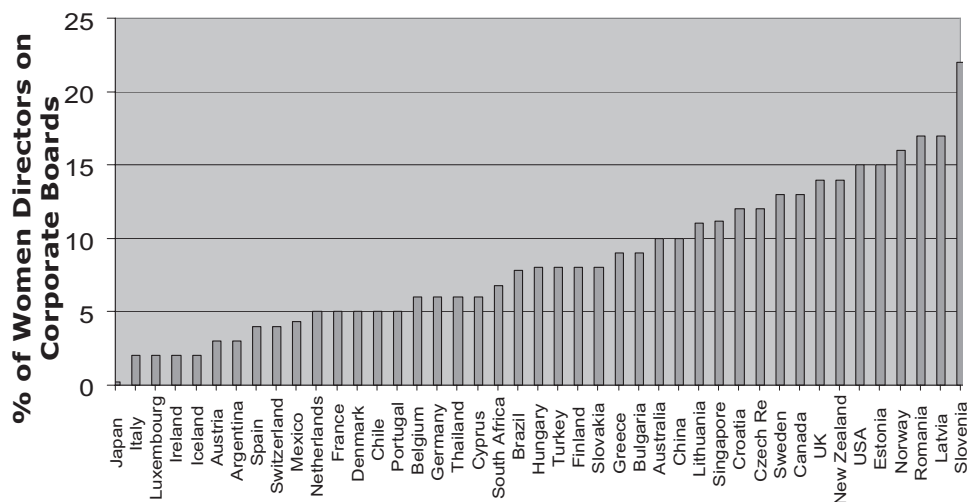
**Private versus Public Initiatives.** In Australia, there is no formal requirement for private or listed companies to consider board diversity, in contrast to the government sector, which has 30 years of public policies to ensure boards are diverse or reflect the broader community (Ross-Smith and Bridge, 2008). Similarly in New Zealand, a microcosm of Western business, with only 1600 companies with more than 100 employees, women hold just 7 per cent of board directorships, and 63 of the top 100 companies have no WOCBs (MacGregor and Fontaine, 2006). In contrast, women constitute over 35 per cent of state sector board directorships (Hawarden and Stablein, 2008). These contrasting findings point to the danger of averaging national statistics, which would lead to misrepresentation.

**Cultural Attitudes, Infrastructure, and Public Policy.** Different countries' socio-political beliefs and attitudes to women, work, and families have significant effects on both the possibility of an individual woman's career progression and the country's macro-economic environment. Within Europe contrasting attitudes, and therefore policies, led to some of the highest and lowest rates of WOCBs globally (see Figure 1).

Some European countries have strong public policy initiatives. Traditionally considered a country with a strong macho culture, the Spanish government requires 40 per cent female representation on boards by 2015 (de Anca, 2008). Spain is following Norway's example, where the government first encouraged and then mandated that all publicly listed companies have 40 per cent female boards by January 2008 (Hoel, 2008). Sweden proposed quotas and fines but has not yet implemented legislation (Maitland, 2004). Changes in many European women's working lives are predominantly driven by public policy, and it will be interesting to see if corporate initiatives will now take advantage of this talent pool. The US model is in stark contrast to Europe as the impetus for demographic change comes almost entirely from private initiatives. Former Soviet Bloc countries are among the highest ranking for women in management (Wirth, 2002) and on corporate boards (see Figure 1). Under communism, women worked and had families. Highly subsidized childcare was the norm, and in an egalitarian social system, women gained relatively powerful social and economic positions. As Wittenberg-Cox and Maitland (2008: 206) share in their recent book, "it is no surprise that Germany's first female Chancellor, Angela Merkel, is an East German. She was raised in a system that taught her to think she could lead."

Terjesen and Singh's (2008) institutional perspective examines social, political, and economic macro-environmental forces: presence of women in senior management, women's historical role in government leadership, and the gender pay gap. Based on a 43 country dataset, they report that in countries where more women made it to the boardroom, there are also significantly more women in

FIGURE 1  
Percentage of Women on Corporate Boards



Source: Terjesen and Singh (2008)

senior management and legislature positions, smaller gender pay gaps, and, interestingly, a shorter period of women's political representation.

**Economic Environment.** Many of the studies incorporate data from the economic boom period of the 1990s, which Nelson and Levesque say should represent the best-case scenario for women. However, Arfken *et al.* (2004) point to a peak of merger and acquisition activity in 2000, with many organizations merging their boards as well as their companies. This led to a reduction in the overall numbers of available positions, which limits the opportunity for board diversity.

## IMPACT

### Individual

**Token and Minority Members.** Women and others different to the dominant group are likely to face tokenism when they are the sole representative of their group characteristic (Kanter, 1977). The dominant group tends to see women first as female, embodying the sex role stereotype, and only later as individuals. This makes it difficult for women directors to be heard, and importantly, listened to on an equal basis with other board members. Erkut *et al.* (2008) find that such issues are reduced when there is more than one female director. They refer to a critical mass, as when there were two or more women and found an impact on male colleagues, who were less likely to dismiss comments made by a woman and an impact in the boardroom, where the culture was said to have been warmer and more open to wider discussions. The real change occurs when there are three or more women on the board (Erkut *et al.*, 2008) and women feel more comfortable, less constrained about what the men would think, and their interactions become

more positive. Importantly, diversity becomes not a "woman's issue," but group responsibility and the critical mass normalizes women's presence as leaders (Erkut *et al.*, 2008).

**Role Models.** Women directors are role models who inspire others. Role modeling differs from mentoring where there is direct contact between partners, but many mentors are also role models. Some women directors are careful about their role modeling behaviors, so they present an accomplished self (Singh, 2008b). Executives below director level, especially women, watch and learn what to do and what not to do. Women directors are an important part of others' work identity development (Sealy and Singh, 2006). Sealy (2008b) explores whether role models are important for senior women and investigates how organizations select and profile top women, some of whom are FTSE 350 non-executive directors.

**Diversity Supporters.** While women at lower levels in firms may hope that female directors will advocate women's issues, there is evidence that this may be a "poisoned chalice" that many senior women are reluctant to accept (Ashford, Rothbard, Piderit, and Dutton, 1998). Perhaps WOCBs understand better the political arena and are more aware of the consequences if they were to fail. Bradshaw and Wicks (2000) find that Canadian WOCBs do not have a feminist change agenda, but see their role with the same priorities as those of male directors, protecting shareholder value. Bradshaw and Wicks (2000) express surprise at how few acts of resistance were reported by their female director interviewees. Women directors in engineering firms advise other women not to be crusaders, but rather engage leaders to take up the advocacy role (Singh, 2008b), and to follow the "tempered radical" (Meyerson and Fletcher, 2000) small wins approach in their own divisions.

## Board

**Governance Performance.** A Canadian study of private sector, public sector, and not-for-profit boards (Brown, Brown, and Anastasopoulos, 2002) reveals that boards with three or more women are significantly different from all male boards. Three-quarters of boards with women explicitly identify criteria for measuring strategy, compared to less than half of all-male boards, and 94 per cent of boards with three or more women explicitly monitor the implementation of corporate strategy, compared to only two-thirds of all-male boards (Brown *et al.*, 2002). There are similar statistics regarding conflict of interest guidelines and ensuring a code of conduct for the organization. Furthermore, boards with two or more female directors place more importance on the use of search consultants than other boards, which is likely to reduce the influence of the old boys' network and increase transparency of selection. Boards with women directors are also more likely to have higher levels of board accountability, with formal limits to authority and formal director orientation programs. Boards with three or more females are likely to ensure more effective communication among the board and its stakeholders. In addition, such boards are significantly more active in promoting non-financial performance measures such as customer satisfaction, employee satisfaction, and gender representation, as well as considering measures of innovation and corporate social responsibility.

In the UK, FTSE 100 firms with women directors adopted and reported the new governance practices recommended by the Higgs Review earlier than firms with all male boards. The significant differences in 2004 include having director induction and training, a regular review of board performance and the balance of board skills, knowledge and experience, and director succession planning structures, including approval for the use of external search consultants (Singh and Vinnicombe, 2004).

**Decision Making.** Better corporate governance is achievable through sharing a broader and different range of experiences and opinions (Fondas and Salsalos, 2000). Homogenous boards tend not to recognize how similarly members think because these values are the norm for them (Maznevski, 1994). Women have different experiences of the workplace, marketplace, public services and community, and therefore women directors bring a different voice to debates and decision making (Zelechowski and Bilimoria, 2004).

**On Board Behaviors and Boardroom Culture.** Women's boardroom presence leads to more civilized behavior and sensitivity to other perspectives (Bilimoria, 2000; Fondas and Salsalos, 2000). Huse and Solberg (2006) report that women lighten up the boardroom atmosphere. However Huse (2008) finds no relationship between the proportion of women directors and the openness of the board culture in Norwegian firms, but when women's backgrounds differ from those of men, their contributions to the board working style are recognized. Huse warns that teasing out how women actually contribute is complex, because women contribute in different ways to the variety of governance tasks that the board is entrusted with. Women directors feel that

their presence makes the board more sensitive to women's issues (Burke, 1997).

Singh (2008b) examines gendered boardroom cultures in engineering, high technology, and scientific organizations. Directors with experience of working with women directors say that men are inclined to have very political behavior that is tempered when women are present, partly because women want to get on with the task in hand rather than "play games." Other comments are that a male-only group can get carried away with the big agenda and miss a lot of the detail that women would pick up on. Male directors say that in the presence of women directors, men change their language, become more civilized, and moderate their masculinity. In their view, this led to more effective performance and better governance.

**On Board Independence.** Women directors can enhance the independence of the board (Fondas and Salsalos, 2000). Israeli (2000) comments that women are likely to take the role seriously, preparing conscientiously for meetings, a finding echoed by Huse and Solberg (2006). Women directors also frequently ask questions, meaning that decisions are less likely to be nodded through. CEOs report that women become more vocal and active as directors when there are three or more females (Konrad, Kramer and Erkut 2008).

**On Board Skills, Knowledge, and Experience.** Women directors contribute unique skills, knowledge, and experience to their boards, but their feminine attributes may be masked in boardroom cultures that do not allow expressive behaviors. This can lead to the board having female representation, but only masculine behaviors, losing the benefits of diversity (Sheridan and Milgate, 2005). Some CEOs have to persuade female and male directors that it is okay to express intuition and emotion, and that "feminine intuition" about some proposed strategy might well be just what the board needed to hear (Singh, 2008b). While this is an essentialist view of female talents, emotional intelligence of both women and men is increasingly valued at the very top.

## Firm

**Corporate Financial Performance.** Many researchers explore the impact of women directors on firm level financial performance, reporting mixed results, although more positive relationships are found in recent studies. There is certainly a relationship between the presence of women directors and higher market capitalization in Fortune 500 (Catalyst, 2004) and FTSE 100 firms (Singh, Vinnicombe and Johnson, 2001; Singh and Vinnicombe, 2003). In the FTSE 100 study, the larger the firm's market capitalization, the greater the likelihood is for multiple women directors, however market capitalization can be seen as a proxy for size. Firms with women directors are more likely to have larger workforces, as well as larger boards (Burke, 2000; Singh *et al.*, 2001). The internal talent pool is larger, arguably providing more opportunities for challenge and growth, and more routes to the top for women than in smaller firms.

Research studies use a variety of performance measures to examine the link with board diversity, but results are mixed.

A study of 200 Fortune 500 firms by Shrader *et al.* (1997) finds that the percentage of women on the board (averaging eight per cent in these firms in 1992) is negatively related to firm financial performance (ROE, ROA, ROI, and ROS) measured in 1993, but positively related to the proportion of women in management.

Drawing on 1993 and 1998 data for 112 Fortune-listed firms, Erhardt, Werbel, and Shrader (2003) examine the link between executive board diversity (25 per cent; measured as the percentage of nonwhites and females on the board in 1997 and 1998) and ROA and ROI, using a five year interval to control for market fluctuation. They report a positive association with both financial indicators, suggesting that board diversity impacts overall firm performance, but not gender diversity.

Another study of 797 Fortune 1000 firms' board diversity finds that compared to firms with all-male boards, firms with at least two women on the board performed better on Tobin's Q and ROA (Carter, Simkins and Simpson, 2003). However, Rose (2007) reports no relationship between Tobin's Q and gender diversity on Danish boards, and speculates that women directors are so few and the culture so closed at the top (only four per cent of supervisory directorships held by women) that assimilation of the attitudes and behaviors of existing male directors becomes inevitable for WOCBs, leading to a negation of women's diversity advantages.

The presence of multiple female directors is associated with higher revenues, according to a study by Catalyst (1997) of the Fortune 500 firms, where the top 100 companies by revenue are twice as likely to have multiple women on board compared to the bottom 100 companies. Burke (2000) also finds a similar correlation in top Canadian companies. Catalyst (2004) reports a positive link between gender diversity on boards and the bottom line as measured by return on investment and total return to shareholders in a sample of 353 Fortune 500 companies, with ROI being 35 per cent and TRS being 34 per cent higher in the group of firms with higher female representation in the top management team.

**Female Director Appointment Announcements.** The immediate impact when a female director is appointed is another area of research interest. A study of Singapore firms finds a positive 2.3 per cent increase in share value over the two days following appointments of 34 female directors in 30 firms between 1988 and 2001, and this is enhanced when the new appointment is a female CEO. However there is no relationship between the proportion of women on the board and shareholder value (Ding and Charoenwong, 2004). Hence women directors are welcomed by Singaporean investors at the time of their appointment. Lee and James (2007) investigate the impact of appointment of female CEOs in the US on shareholder value, finding a more negative reaction to a female CEO compared to a male CEO and to female top team appointments, but less negative to a female CEO appointed from within the firm, compared to an outside hire.

**"Glass Cliff" Effect.** The "glass cliff" phenomenon describes how women are more likely than male directors to be placed in precarious situations (i.e., onto boards of poorly performing companies in periods of decline) (Ryan and

Haslam, 2005). Poor performance is not associated with a recent appointment of a female director, and during a general economic downturn, companies that appointed a woman enjoy share price increases, though still suffer poor performance. When in executive positions, new women directors are highly visible and in danger of being criticized for their leadership style and individual abilities, which could result in a tarnished reputation if the downturn continued, while the context of their appointment at an unpropitious time was overlooked (Ryan and Haslam, 2005). Adams, Gupta and Leeth (2008) investigate female leadership appointments in US firms (1992–2004), finding that women tend to be appointed to CEO positions when firm performance is relatively good. Stock price performance preceding CEO appointments either favors females or there is no gender difference.

Haslam and Ryan (2008) further investigate WOCB appointments on both accountancy-based and stock-based measures, finding no relationship between women's presence on boards and "objective" accountancy-based measures of performance (ROA, ROE), thereby supporting the recent Adams *et al.* (2008) study. However, there is a significantly negative relationship with Tobin's Q (Haslam and Ryan, 2008).

Although these studies indicate mixed results regarding the relationship between WOCBs and various measures of financial performance, this should not diminish the validity of the view that gender diversity in the boardroom is beneficial to shareholder value. After a new male director is appointed, if there is a change in shareholder value either in the immediate or longer term, this would be unlikely to be attributed to his male gender – so why should we expect a female appointee to add directly to the corporate bottom line? We expect female directors to add value in many qualitative ways as indicated in this paper, which would not be discernable directly in the balance sheet in the short term. Diversity is part of exemplary corporate governance that enhances long-term shareholder value (Robinson and Dechant, 1997; Brown, Brown and Anastasopoulos, 2002).

**Shareholders and Ethical Investors.** Bilimoria (2000) draws attention to the fact that powerful investors, such as union pension funds with many female members, are voicing concerns about the lack of gender diversity on US corporate boards, and that this would increase pressure on chairs and CEOs to encourage female director appointments. Echoing this, Brown, Brown, and Anastasopoulos (2002) comment that Canadian institutional shareholders are interested in board diversity, as they seek to invest in firms with good governance. Investors may see outcomes of good diversity management (such as women on the board) as an indicator of forward planning and future value in a globalizing world where sensitivity to different cultures and diversity is essential for long term survival. Companies with all male boards or those that have a large female workforce, or sell products targeted at women are particularly likely to be challenged by stakeholders. Women are increasingly the decision makers when it comes to major purchases such as houses, cars, and holidays. Women directors may suggest new ways of bringing products to market, based on their personal experience

as female customers. Where companies use market segmentation approaches, women's involvement in strategic decision making is essential in developing the firm's capability to identify and tailor products to women (Daily *et al.*, 1999).

**Corporate Responsibility and Philanthropy.** WOCBs may impact corporate responsibility, as a study of corporate social responsiveness orientation in S&P firms indicates that women directors are more oriented towards discretionary elements of corporate responsibility than men (who are more concerned about economic performance). However, there are no significant gender differences with regard to the legal and ethical dimensions of corporate responsibility (Ibrahim and Angelidis, 1995). Favored explanations are that women are more likely to be outside directors, and boards with more outsiders tend to be more philanthropic, or that women directors are younger and hence represent a generation gap. Williams' (2003) study of Fortune 500 firms from 1991–94 finds a link between WOCBs and the firm's charitable support of community and cultural activities, but not for education. Williams (2003) suggests that women directors may experience the influence of giving as a source of power, and speculates that as women take up more powerful committee roles, they may be less attracted to these aspects of corporate responsibility. Organizations with more equal representation of female and male board members are more able to fulfill social agency missions (Siciliano, 1996).

**Organizational Legitimacy and Corporate Reputation.** WOCBs have symbolic value both internally and externally. Where women hold executive directorships, firms are likely to gain legitimacy from female employees and from potential recruits as "female-friendly employers" with career tracks that advance women as well as men (Sealy, 2008a). Having women on the board, particularly in executive positions, makes it more difficult to claim that there is significant sex discrimination in the firm. CEOs surveyed as early as 1995 (Catalyst, 1995) comment that there is external political pressure and the feeling that it was the right thing to do. Interestingly, one CEO reports pressure from his wife, daughters, and granddaughters who were scrutinizing his performance on recruiting women to top positions!

**Other Women, in Networks, as Mentors, as Inspirational Role Models.** The number of women corporate directors on Fortune 500 boards is positively related to the number of women officers, number of women holding line management jobs, number of women holding high-ranking titles, number of women in the top earners of the company, and a critical mass of women officers, the (Bilimoria, 2006). Senior women felt inspired when the first female director is appointed to an engineering board, seeing the appointment as a "huge milestone." However the absence of women at board level leads to mixed results, with some women determined to be the first female director, and others feeling that their gender is an inevitable barrier to the top (Singh, 2008b). In a survey of 219 senior women, 66 per cent feel very optimistic about their careers if there are women directors

on their board, rising to 69 per cent when there are female executive directors (Singh, 2008b). Seventy percent of the women strongly agree that when there are no women at the top who have children, this is an indicator that it is difficult to combine career and family in that organization.

Women directors provide mentoring and networking opportunities for more junior women to develop their careers (Bilimoria, 2000). Women directors are good at networking with other women (Catalyst, 1995) and often act as speakers at networking events, which women find very inspiring, and an opportunity to ask how the director had overcome the career and work/family challenges that attendees are experiencing (Singh, Vinnicombe and Kumra, 2006). These interactions increase the potential for women to find a wider variety of female role models, enabling them to emulate behaviors from a number of women as well as men, which Ibarra (1999) suggests is more beneficial than drawing on a single role model.

**Recruitment and Retention.** The presence of female directors symbolizes career possibilities to prospective recruits (Sealy, 2008a) and also contributes to increased retention of women (Bilimoria, 2000). This is important when the economic cost of losing a well-qualified woman is estimated as at least one and a half times her salary (ABA, 2000).

### Industry and Environment

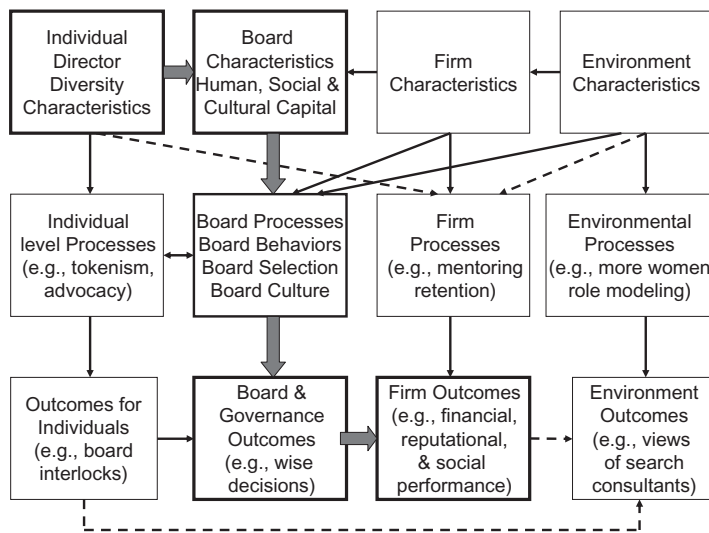
We did not find any example of the impact of women directors at the industry level. However, we did find examples at the environmental level.

**Citizens.** Women's presence as directors signifies that women play a full part as citizens of organizations and society. However, for them to have voice as citizens, the environment needs to be open to their influence, and in the past, the women who succeeded were pioneers or "travellers in a male world" (Marshall, 1984). More recently the trend is for "superwomen": highly paid, working all hours, and flying around the globe. But for many, that comes at a personal cost, either not having children or outsourcing childcare.

**Talent.** Women directors are part of the talent pool for other directorships. Executive directors may seek their first non-executive post, or plan to move into a portfolio career with several NED positions. As part of the talent pool, women influence perceptions held by search consultants about the appropriateness of women for board appointments. They also influence and normalize the attitudes of chairs and CEOs that women should be part of the talent pool at all levels.

**Symbols in Media.** When women are appointed to corporate boards, there is often a press fanfare that the glass ceiling has at last been broken, which Catalyst and Female FTSE indices clearly disprove with the almost imperceptible change in the proportion of women executive directors in both the US and UK over the last 10 years. Female directors'

**FIGURE 2**  
**Characteristics and Outcomes of Gender Diversity on Corporate Boards**



photographs are frequently displayed in the press, often alongside comments on their clothes, hairstyles, and family status, using space that could be better allocated to their achievements and actions (Krefting, 2002). Unfortunately this practice shows no sign of diminishing.

Figure 2 maps out the linkages described above across the four levels of analysis. With the key path shown in bold with larger arrows and indirect paths shown as dotted lines, Figure 2 shows that through human, social, and cultural capital, board diversity is derived from individual director diversity (especially where there is a critical mass of women). Through board level processes such as quality of decision making, board diversity influences governance outcomes, which in turn, impact firm level financial, social, and reputational outcomes.

Board processes are influenced by and influence individual directors. For example, minority directors often experience tokenism from other members both at an individual and group levels. Tokenism may hinder acceptance of women's boardroom contributions, thereby negatively impacting performance, but this may be mitigated by social ties to existing board members. Through advocacy of a woman director by a chairman, for example, individual women may achieve positive outcomes such as increased confidence and interlocking directorships. Such personal outcomes may influence the environment as chairmen and search consultants generally become less hostile to appointing diverse individuals.

Firm characteristics such as larger size influence board characteristics, with a consistent correlation between market capitalization and the number of women directors. Firms with predominantly female consumers are facing increasing calls for women's voices to be heard in the boardroom. Firm characteristics and processes such as succession planning schemes and mentoring programs influence retention, often assisted indirectly by female directors who symbolize the

possibilities of progress for women. Firm and environment level characteristics combine to influence selection of women CEOs, as in the "glass cliff" effect. Social, political, and economic environmental characteristics such as national or regional cultures and government mechanisms also influence board selection processes, e.g., through quotas as in Norway, enabling women to play full citizenship roles in society. More female directors means an increase in potential role models for younger women, which can change the environment and attitudes towards women on the board. More women gaining non-executive directorships means that search consultants have a larger and experienced talent pool which to make their recommendations.

It is clear from this review that women play an influential role on corporate boards, but there are still major barriers to their access to such elite positions. When boards do include women, then there is evidence that corporate governance improves. We conclude with a detailed outline of future research directions at the four levels.

## FUTURE RESEARCH

### Individual

As extant literature is predominantly based on publicly available information, truly innovative research would tap into the female directors' experiences. Several directions are promising. First, as both Sheridan and Milgate (2005) and Huse and Solberg (2006) report that women directors partly attribute their selection to high visibility, an impression management lens could help answer questions such as: How do WOCBs manage their career stages? What strategies are applied in the public domain versus in the boardroom?

A second promising area, also outlined by Ross-Smith and Bridge (2008) and Zelechowski and Bilimoria (2004), is the elaboration of director profiles including career paths and networks. Such in-depth investigations, traditionally facilitated by archive data, could benefit from interviews and the utilization of life history calendars that take into account portfolio career perspectives (see Freedman, Thornton, Camburn, Alwin and Young-DeMarco, 1988 for an overview of methodology). Research could explore the dynamics of the appointment process, considering a 360-degree perspective to capture the reasons for successful and unsuccessful applications. Furthermore, WOCBs' post-board careers warrant further study. What linkages might former directors make between their old boards and their new positions? For example, until 2006, Lehman Brothers' board included Dina Merrill (a former actress who is now a trustee to several community organizations) (Berman, 2008; Wikipedia, 2008). Might other former directors join universities as executives-in-residence? Furthering career perspectives, we concur with Nelson and Levesque (2007) that much could be learned from women who exited. Key questions from a career perspective include: When and why do potential or actual women directors "opt out" (Mainiero and Sullivan, 2006)? In terms of human and social capital theories, extant research has examined "what it takes" to be named to boards – might there be potential sets which are unattractive in the selection process, for example an association with a

company which has bankrupted? Research could explore gender differences.

Third, if some women have many board appointments available to them (Farrell and Hersch, 2005) and given the increased responsibility of being on a board and the pressure for limited directorships, what are women's selection criteria for serving on boards? Many of the above research questions, as well as below directions for board and firm research, could be explored using narratives from published autobiographies, such as Carly Fiorina's (2007) memoir *Tough Choices*.

## Board

The "black box of the boardroom" has eluded most researchers – with Huse's (2008) board observations an exception. Researchers could help answer the tough questions, especially in the wake of recent corporate governance failures: What role have WOCBs played in the pre-crisis decisions and post-crisis leadership of such corporations? Are WOCBs likely to be members or chairs of the increasingly common board ethics committees and governance committees?

It would be interesting to obtain the views of chairs and other board members about the relative usefulness of diverse human capital and social capital resources of incoming directors once they have been fully integrated into the board and its key committees. Might there be ambiguous resources that never come to fruition? How does the chair's view compare with that of the other directors?

Another stream could explore the board's link to other firms, such as executive search consulting firms. How do these firms participate in board recruitment and skills assessment? Does gender diversity play a role?

Links should be developed with other disciplines, such as corporate environmental studies, to identify how boards with women directors actually deal with increasingly important environmental issues. Do WOCBs take a different perspective in boardroom debates on corporate social responsibility, green environmental issues, or policies that influence the environment for employees on issues such as work/life balance?

## Firm

There are suggestions that some firms address the visible lack of diversity by appointing a single non-executive/outside director, rather than addressing the longer-term issue of an underdeveloped talent pool of senior women. Therefore, more research into executive team demography would bring this issue to light, addressing the issue of the pipeline. Key questions include: Are women executives mobile across companies, e.g., to be part of the talent pool in Firm A, but selected to serve on the board of Firm B? Websites such as theyrule.com facilitate the collection of networking data.

There is a continual call for research that "proves" the added value of women on corporate boards to the bottom line. However, we caution that it is unreasonable to expect one female director to bring about a financial contribution soon after appointment. Researchers could concentrate on

the direct outcomes of having more WOCBs and look at when and how women contribute most effectively in their role as corporate board directors. Other key questions include: How do WOCBs impact relationships with key stakeholders such as fund managers or individual potential employees? What role do women directors play in various corporate social responsibility initiatives as well as sustainability as a facet of corporate cultural and life cycle planning?

## Industry and Environment

As explained earlier, industry research is uncommon. Thomas' (2001) longitudinal study of female directors in top British retailing firms (1956–1997) introduces a standard for research in other sectors. Why are WOCBs found in certain industries? Do women directors move across industries? Are women entering the workforce aware of role models in certain industries, and does this affect their occupational and organizational choices?

Initial investigations into the effects of regulations such as Sarbanes-Oxley Act (2002) and recommendations in the Higgs Review (2003), which do not explicitly detail guidelines on diversity by sex, suggest these have nevertheless impacted the accessibility of board positions to women (Sealy *et al.*, 2007). Further questions here include: What impact do non-sex diversity initiatives have on WOCBs?

As globalization brings new arenas such as China, India, Brazil, and Russia under the spotlight, it would be useful to understand how the globalizing environment influences women getting to the board. Another area of interest is the fast-modernizing Middle East, where corporate governance and stock markets are not yet mature, but increasing access to education for women and changing career and family patterns are influencing the access and participation of women at decision-making levels in the business world.

Most firms are required to report their corporate board demographics in proxy statements and annual reports, but in most countries it is not mandatory to report this information on the entire executive team. We know little about the impact on industry, and how women's wider range of experiences in private and public sectors influence the community, for example as school governors and mentors to teenage girls.

As the lack of female access to corporate boardrooms is an international phenomenon, the field would benefit from further international studies. More countries (led by Catalyst in the US and Canada) now conduct a census of WOCB. The European Commission regularly updates WOCB statistics on the top 50 companies in all EU countries. But more in-depth investigation is needed beyond the statistics, and more collaboration is needed among the researchers so that there is transparency about board structures and governance systems, methodologies, and sampling decisions. Taken together, future research should consider multiple levels of analysis – the individual, board, firm, and industry/environment.

## CONCLUSION

The goal of this paper was to review the most up-to-date and significant studies of women on corporate boards. We have

identified what is known about how WOCB influences corporate governance and firm performance. We argue that this occurs through multi-level processes, as shown in Figure 2. The evidence shows that gender diversity on corporate boards contributes to more effective corporate governance through a variety of board processes, some of which do not show up as a direct influence on the firm's bottom line, as well as through individual interactions. As well as governance outcomes, women directors contribute to important firm level outcomes as they play direct roles as leaders, mentors, and network members as well as indirect roles as symbols of opportunity for other women, and inspire them to achieve and stay with their firm. More recognition is needed for their valuable contribution to firm value. But as the WOCB demographics indicate, as corporate citizens most women do not yet have an equitable share in the governance of the firms in which they enact their careers.

Much research interest has focused where data are readily available (e.g., board and director demographics and firm level financial data), rather than accessing boards directly. The lack of theoretical development in the overwhelming majority of the 180 documents reviewed indicates an urgent need for more scholarship in this field.

As Bilimoria (2000) comments, more efforts need to be made to disseminate research findings so that a stronger business case can be established. There has been considerable progress in terms of benchmarking across an increasing number of countries. Policies vary from overt intervention, such as the quotas in Norway, to a conscious non-intervention approach, such as the US. Governments monitor the implementation and effectiveness of diversity policies and practices, using robust research results to design interventions. Research into women on corporate boards is an important tool, not only for making an academic contribution, but also to provide the basis for change, not just for a more equitable, but also for a more effective gender representation at the decision-making levels of the corporate world.

## ACKNOWLEDGEMENTS

We appreciate support and guidance from special issue editors Brian Boyd and Igor Filatotchev and journal editor Bill Judge. We are grateful to corporate governance scholars who shared their latest working papers and in press research.

## NOTES

1. We also do not consider other types of board diversity such as race, ethnicity and nationality.
2. When applicable, these studies are cited in subsequent sections on characteristics and impact.
3. FTSE 100 stands for *Financial Times* Stock Exchange's top 100 companies by market capitalization.
4. Linkages to board and firm needs are articulated in the resource dependency section below.
5. Having obtained specific knowledge in functional areas in the firm, inside directors offer expertise in corporate strategy. Second, business expert directors have career experience as directors in other large firms, in similar markets, and offer

diverse opinions and network ties. The third category, support specialists, offer expertise in particular areas such as financial or legal realms. Community influentials often come from politics, clergy or academia and offer an understanding and linkage to this community.

6. The terms "Non-Executive Director" and "Outside Director" refer to individuals on the board who do not have executive roles in the firm. The terms "Executive Director" and "Inside Director" describe firm employees who have roles on the board.

## REFERENCES

- ABA (American Bar Association) (2000) *Commission on Women in the Profession: Recruitment, Retention and Success of Women Lawyers*, ABA, Chicago, IL.
- Adams, S. M. and Flynn, P. M. (2005) Local knowledge advances women's access to corporate boards, *Corporate Governance: An International Review*, 13(6): 836–46.
- Adams, S. M., Gupta, A. and Leeth, J. (2008) Are female executives over-represented in precarious leadership positions? *British Journal of Management*, 16(2): 81–90.
- Aguilera, R., Filatotchev, I., Gospel, H. and Jackson, G. (2008) An organizational approach to comparative corporate governance: Costs, contingencies, and complementarities, *Organization Science*, 19(3): 475–92.
- Arfken, D. E., Bellar, S. L. and Helms, M. M. (2004) The ultimate glass ceiling revisited: The presence of women on corporate boards, *Journal of Business Ethics*, 50: 177–86.
- Asch, S. E. (1951) Effects of group pressure upon the modification and distortion of judgment. In: Guetzkow, H. (ed.) *Groups, Leadership, and Men*, 177–90. Carnegie Press, Pittsburgh.
- Ashford, S., Rothbard, N., Piderit, S. and Dutton, J. (1998) Out on a limb: The role of context and impression management in selling gender-equity issues, *Administrative Science Quarterly*, 43: 23–57.
- Becker, G. (1964) *Human Capital*, University of Chicago Press, Chicago, IL.
- Berman, D. K. (2008) Where was Lehman's board? *Wall Street Journal*. (<http://blogs.wsj.com/deals/2008/09/15/where-was-lehmans-board/>).
- Biernat, M. and Kobrynowicz, D. (1997) Gender- and race-based standards of competence: Lower minimum standards, but higher ability standards for devalued groups, *Journal of Personality and Social Psychology*, 72: 544–57.
- Bilimoria, D. (2000) Building the business case for women corporate directors. In: Burke, R. and Mattis, M. (eds.) *Women on Corporate Boards of Directors: International Challenges and Opportunities*, 25–40. Kluwer, Dordrecht.
- Bilimoria, D. (2006) The relationship between women corporate directors and women corporate officers, *Journal of Managerial Issues*, 18(1): 47–61.
- Bilimoria, D. and Piderit, S. (1994) Board committee membership: Effects of sex-based bias, *Academy of Management Journal*, 37(6): 1453–77.
- Bradshaw, P. and Wicks, D. (2000) Experiences of white women on corporate boards in Canada: Compliance and non-compliance to hegemonic masculinity. In: Burke, R. and Mattis, M. (eds.) *Women on Corporate Boards of Directors: International Challenges and Opportunities*, 197–212. Kluwer, Dordrecht.
- Brammer, S., Millington, A. and Pavelin, S. (2007) Gender and ethnic diversity among UK corporate boards, *Corporate Governance: An International Review*, 15(2): 393–403.
- Branson, D. (2006) *No Seat at the Table: How Corporate Governance and Law Keep Women out of the Boardroom*, New York University Press, New York.
- Brown, D., Brown, D. and Anastasopoulos, V. (2002) *Women on Boards: Not just the Right Thing . . . But the "Bright" Thing*, Report, 341-02: The Conference Board of Canada, Ottawa.

- Burgess, Z. and Tharenou, P. (2002) Women board directors: Characteristics of the few, *Journal of Business Ethics*, 37(1): 39–49.
- Burke, R. J. (1995) Women on corporate boards of directors: Views of Canadian chief executive officers, *Women in Management Review*, 9: 3–10.
- Burke, R. J. (1997) Women on corporate boards of directors: A needed resource, *Journal of Business Ethics*, 16(9): 909–15.
- Burke, R. (2000) Company size, board size, and the numbers of women corporate directors. In: Burke, R. and Mattis, M. (eds.) *Women on Corporate Boards of Directors: International Challenges and Opportunities*, 118–25. Kluwer, Dordrecht, The Netherlands.
- Burke, R. and Kurucz, E. (1998) Demographic characteristics of Canadian women corporate directors, *Psychological Reports*, 83(2): 461.
- Burke, R. and Nelson, D. (2002) Advancing women in management: Progress and prospects. In: Burke, R. and Nelson, D. (eds.) *Advancing Women's Careers*, 3–14. Blackwell, Oxford.
- Carli, L. J. (1990) Gender, language, and influence, *Journal of Personality and Social Psychology*, 59(5): 941–52.
- Carter, D., Simkins, B. and Simpson, G. (2003) Corporate governance, board diversity, and firm value, *Financial Review*, 38: 33–53.
- Catalyst (1993) *Women on Corporate Boards: The Challenge of Change*, Catalyst, New York.
- Catalyst (1995) *Census of Women Board Directors of the Fortune 500*, Catalyst, New York.
- Catalyst (1997) *Census of Women Board Directors of the Fortune 500*, Catalyst, New York.
- Catalyst (2004) *The Bottom Line; Connecting Corporate Performance and Gender Diversity*, Catalyst, New York.
- Catalyst and Opportunity Now (2000) *Breaking the Barriers: Women in Senior Management in the UK*, Catalyst, New York, and London: Business in the Community, London.
- Daily, C. and Dalton, D. (1995) CEO and director turnover in failing firms: An illusion of change, *Strategic Management Journal*, 16: 393–400.
- Daily, C., Certo, T. and Dalton, D. (1999) A decade of corporate women: Some progress in the boardroom, none in the executive suite, *Strategic Management Journal*, 20: 93–99.
- De Anca, C. (2008) Women on corporate boards of directors in Spanish listed companies. In: Vinnicombe, S., Singh, V., Burke, R., Bilimoria, D. and Huse, M. (eds.) *Women on Corporate Boards of Directors: International Research and Practice*, 96–107. Edward Elgar, Cheltenham.
- Ding, D. and Charoenwong, C. (2004) Women on Board: Is it Boon or Bane? Working Paper presented at 2004 FMA European Conference, Zürich, June.
- Eagly, A. and Karau, S. J. (2002) Role congruity theory of prejudice toward female leaders, *Psychological Bulletin*, 109(3): 573–98.
- Ellis, K. M. and Keys, P. Y. (2003) Stock Returns and the Promotion of Workforce Diversity. Working Paper, University of Delaware.
- Erhardt, N., Werbel, J. and Shrader, C. (2003) Board of director diversity and firm financial performance, *Corporate Governance: An International Review*, 11(2), 102–11.
- Erkut, S., Kramer, V. W. and Konrad, A. M. (2008), Critical mass: Does the number of women on a corporate board make a difference? In: Vinnicombe, S., Singh, V., Burke, R., Bilimoria, D. and Huse, M. (eds.) *Women on Corporate Boards of Directors: International Research and Practice*, 350–66. Edward Elgar, Cheltenham.
- European Professional Women's Network (2008) *Third Bi-annual European PWN Board Women Monitor 2008*, Brussels.
- Farrell, K. A. and Hersch, P. L. (2005) Additions to corporate boards: The effect of gender, *Journal of Corporate Governance*, 11: 85–106.
- Fiorina, C. (2007) *Tough Choices: A Memoir*, Elsevier, Reed.
- Fondas, N. and Salsalos, S. (2000) A different voice in the boardroom: How the presence of women directors affects board influence over management, *Global Focus*, 12: 13–22.
- Freedman, D., Thornton, A., Camburn, D., Alwin, D. and Young-DeMarco, L. (1988) The life history calendar: A technique for collecting retrospective data, *Sociological Methodology*, 18: 37–68.
- Fryxell, G. E. and Lerner, L. D. (1989) Contrasting corporate profiles: Women and minority representation in top management positions, *Journal of Business Ethics*, 8(5): 341–52.
- Gillan, S. L. and Starks, L. T. (2000) Corporate governance proposals and shareholder activism: The role of institutional investors, *Journal of Financial Economics*, 57: 275–305.
- Goodman, J. S., Fields, D. L. and Blum, T. C. (2003) Cracks in the glass ceiling: In what kinds of organizations do women make it to the top? *Group and Organization Management*, 28(4): 475–501.
- Haslam, S. A. and Ryan, M. K. (2008) The road to the glass cliff: Differences in the perceived suitability of men and women for leadership positions in succeeding and failing organizations, *Leadership Quarterly*, 19(5): 530–46.
- Hawarden, R. and Stablein, R. E. (2008) New Zealand women directors: Many aspire but few succeed. In: Vinnicombe, S., Singh, V., Burke, R., Bilimoria, D. and Huse, M. (eds.) *Women on Corporate Boards of Directors: International Research and Practice*, 57–66. Edward Elgar, Cheltenham.
- Heilman, M. E. and Haynes, M. C. (2005) No credit where credit is due: Attributional rationalization of women's success in male-female teams, *Journal of Applied Psychology*, 90(5): 905–16.
- Heilman, M. E. and Okimoto, T. G. (2007) Why are women penalized for success at male tasks?: The implied communality deficit, *Journal of Applied Psychology*, 92(1): 81.
- Helms, M. M., Arfken, D. E. and Bellar, S. L. (2007) Still chilly after all these years: A longitudinal study of corporate board composition in Tennessee, *Business Perspectives*, 19(2): 46–53.
- Higgs, D. (2003) *Review of the Role and Effectiveness of Non-Executive Directors*, Department of Trade and Industry, London.
- Hillman, A. J., Cannella, A. A. and Paetzold, R. (2000) The resource dependence role of corporate directors: Adaptation of board composition in response to environmental change, *Journal of Management Studies*, 37(2): 235–55.
- Hillman, A. J., Keim, G. D. and Luce, R. A. (2001) Board composition and stakeholder performance: Do stakeholder directors make a difference? *Business and Society*, 40: 295–314.
- Hillman, A. J., Cannella, A. A., Jr. and Harris, I. C. (2002) Women and racial minorities in the boardroom: How do directors differ? *Journal of Management*, 28(6): 747–63.
- Hillman, A. J., Shropshire, C. and Cannella, A. A., Jr. (2007) Organizational predictors of women on corporate boards, *Academy of Management Journal*, 50(4): 941–52.
- Hoel, M. (2008) The quota story: Five years of change in Norway. In: Vinnicombe, S., Singh, V., Burke, R., Bilimoria, D. and Huse, M. (eds.) *Women on Corporate Boards of Directors: International Research and Practice*, 79–87. Edward Elgar, Cheltenham.
- Howard, R. and Stablein, R. E. (2008) New Zealand women directors: Many aspire but few succeed. In: Vinnicombe, S., Singh, V., Burke, R., Bilimoria, D. and Huse, M. (eds.) *Women on Corporate Boards of Directors: International Research and Practice*, 85–100. Edward Elgar, Cheltenham.
- Huse, M. (2005) Accountability and creating accountability: A framework for exploring behavioral perspectives of corporate governance, *British Journal of Management*, 16: S65–79.
- Huse, M. (2008) Women directors and the “Black Box” of board behavior. In: Vinnicombe, S., Singh, V., Burke, R., Bilimoria, D. and Huse, M. (eds.) *Women on Corporate Boards of Directors: International Research and Practice*, Edward Elgar, Cheltenham.
- Huse, M. and Solberg, A. G. (2006) Gender-related boardroom dynamics: How Scandinavian women make and can make

- contributions on corporate boards, *Women in Management Review*, 21(2): 113–30.
- Hyland, M. M. and Marcellino, P. A. (2002) Examining gender on corporate boards: A regional study, *Corporate Governance*, 2(4): 24–31.
- Ibarra, H. (1999) Provisional selves: Experimenting with image and identity in professional adaptation, *Administrative Science Quarterly*, 44: 746–91.
- Ibrahim, N. and Angelidis, J. (1995) The corporate social responsiveness orientation of board members: Are there differences between inside and outside directors? *Journal of Business Ethics*, 14(5): 405–10.
- Izraeli, D. (2000) Women directors in Israel. In: Burke, R. and Mattis, M. (eds.) *Women on Corporate Boards of Directors: International Challenges and Opportunities*, 75–96. Kluwer Academic Publishers, Dordrecht, The Netherlands.
- Joy, L. (2008) Women board directors in the United States: An eleven year retrospective. In: Vinnicombe, S., Singh, V., Burke, R., Bilimoria, D. and Huse, M. (eds.) *Women on Corporate Boards of Directors: International Research and Practice*, 17–31. Edward Elgar, Cheltenham.
- Kang, H., Chen, G. and Gray, S. J. (2007) Corporate governance and board composition: Diversity and independence of Australian boards, *Corporate Governance: An International Review*, 15(2): 194–207.
- Kanter, R. M. (1977) *Men and women of the corporation*, Basic Books, New York.
- Kesner, I. (1988) Directors' characteristics and committee membership: An investigation of type, occupation, tenure, and gender, *Academy of Management Journal*, 31: 66–84.
- Konrad, A. M., Ritchie, J. E., Jr., Lieb, P. and Corrigan, E. (2000) Sex differences and similarities in job attribute preferences: A meta-analysis, *Psychological Bulletin*, 126: 593–641.
- Konrad, A. M., Kramer, V. and Erkut, S. (2008) Critical mass: The impact of three or more women on corporate boards, *Organizational Dynamics*, 37(2): 145–64.
- Krefting, L. A. (2002) Re-presenting women executives: Valorization and devalorization in US business press, *Women in Management Review*, 17(3/4): 104–19.
- Lee, P. M. and James, E. H. (2007) She-e-os: Gender effects and investor reactions to the announcements of top executive appointments, *Strategic Management Journal*, 28(3): 227–41.
- Maddux, W. W. and Brewer, M. B. (2005) Gender differences in the relational and collective bases for trust, *Group Processes and Inter-group Relations*, 8(2): 159–71.
- MacGregor, J. and Fontaine, S. (2006) *New Zealand Census of Women's Participation*, Human Rights Commission and New Zealand Center for Women's Leadership, Massey University.
- Mainiero, L. and Sullivan, S. (2006) *The Opt-Out Revolt: Why People are Leaving Companies to Create Kaleidoscope Careers*, Davies-Black.
- Maitland, A. (2004) The north-south divide in Europe Inc, *Financial Times*, 13 June.
- Marshall, J. (1984) *Women Managers: Travellers in a Male World*, Wiley, Chichester.
- Mattis, M. (2000) Women corporate directors in the United States. In: Burke, R. and Mattis, M. (eds.) *Women on Corporate Boards of Directors: International Challenges and Opportunities*, 43–55. Kluwer Academic Publishers, Dordrecht, The Netherlands.
- Maznevski, M. L. (1994) Understanding our differences: Performance in decision-making groups with diverse members, *Human Relations*, 47(5): 531–52.
- Meyerson, D. and Fletcher, J. K. (2000) A modest manifesto for shattering the glass ceiling, *Harvard Business Review*, 78(2): 126–236.
- Mulcahy, A. (2008) *Columbian Female Executives: Navigating the Route to Board Level*. Unpublished MSc Dissertation. Cranfield, Cranfield School of Management.
- Nelson, T. and Levesque, L. L. (2007) The status of women in corporate governance in high-growth, high-potential firms, *Entrepreneurship Theory and Practice*, March: 209–32.
- Oakley, J. (2000) Gender-based barriers to senior management positions: Understanding the scarcity of female CEOs, *Journal of Business Ethics*, 27: 321–34.
- Peterson, C. A. and Philpot, J. (2007) Women's roles on US Fortune 500 boards: Director expertise and committee membership, *Journal of Business Ethics*, 72: 177–96.
- Pfeffer, J. and Salancik, G. (1978) *The External Control of Organizations: A Resource-Dependence Perspective*, Harper and Row, New York.
- Robinson, G. and Dechant, K. (1997) Building a business case for diversity, *Academy of Management Executive*, 11: 21–30.
- Rose, C. (2007) Does female board representation influence firm performance? The Danish evidence, *Corporate Governance: An International Review*, 15(2): 404–13.
- Ross-Smith, A. and Bridge, J. (2008) "Glacial at Best": Women's progress on corporate boards in Australia. In: Vinnicombe, S., Singh, V., Burke, R., Bilimoria, D. and Huse, M. (eds.) *Women on Corporate Boards of Directors: International Research and Practice*, 101–19. Edward Elgar, Cheltenham.
- Ryan, M. K. and Haslam, S. A. (2005) The glass cliff: Evidence that women are over-represented in precarious leadership positions, *British Journal of Management*, 16: 81–90.
- Ryan, M. K. and Haslam, S. A. (2007) Glass cliffs: Exploring the dynamics surrounding the appointment of women to precarious leadership positions, *Academy of Management Review*, 32(2): 549–72.
- Sealy, R. (2008a) The importance of female role models for senior women in investment banks, *Academy of Management Annual Meeting*, Anaheim, CA.
- Sealy, R. (2008b) Role models and identity formation for female directors in banking, *British Academy of Management Conference*, Harrogate, September.
- Sealy, R. and Singh, V. (2006) Role models, work identity, and senior women's career progression – Why are role models important? *Best Papers Proceedings of Academy of Management Annual Meeting*, Atlanta, GA.
- Sealy, R., Singh, V. and Vinnicombe, S. (2007) *The Female FTSE Report 2007*, Cranfield, UK.
- Sealy, R., Vinnicombe, S. and Singh, V. (2008a) *The Female FTSE Report 2008: A Decade of Delay*, Cranfield, UK.
- Sealy, R., Singh, V. and Vinnicombe, S. (2008b) The pipeline to the board finally opens: Women's progress on FTSE 100 boards in the UK. In: Vinnicombe, S., Singh, V., Burke, R., Bilimoria, D. and Huse, M. (eds.) *Women on Corporate Boards of Directors: International Research and Practice*, 37–46. Edward Elgar, Cheltenham.
- Sheridan, A. (2001) A view from the top: Women on the boards of public companies, *Corporate Governance: The International Journal of Effective Board Performance*, 1(1): 8–15.
- Sheridan, A. and Milgate, G. (2005) Accessing board positions: A comparison of female and male board members' views, *Corporate Governance: An International Review*, 13(6): 847–55.
- Shrader, C., Blackburn, V. and Iles, P. (1997) Women in management and firm value: An exploratory study, *Journal of Managerial Issues*, 9: 355–72.
- Siciliano, J. I. (1996) The relationship of board member diversity to organizational performance, *Journal of Business Ethics*, 15: 1313–20.
- Sinclair, A. (1998) *Doing Leadership Differently*, Melbourne University Press, Melbourne.
- Singh, V. (2008a) Contrasting positions of women directors in Jordan and Tunisia. In: Vinnicombe, S., Singh, V., Burke, R., Bilimoria, D. and Huse, M. (eds.) *Women on Corporate Boards of Directors: International Research and Practice*, 165–85. Edward Elgar, Cheltenham.

- Singh, V. (2008b) *Transforming Boardroom Cultures*, Report for UK Resource Centre for Women in Science, Engineering and Technology, Bradford.
- Singh, V. and Vinnicombe, S. (2003) The 2002 Female FTSE Index and woman directors, *Women in Management Review*, 18(7): 349–58.
- Singh, V. and Vinnicombe, S. (2004) Why so few women directors in top UK boardrooms? Evidence and theoretical explanations, *Corporate Governance: An International Review*, 12(4): 479–88.
- Singh, V., Vinnicombe, S. and Johnson, P. (2001) Women directors on top UK boards, *Corporate Governance: An International Review*, 9(3): 206–16.
- Singh, V., Vinnicombe, S. and Kumra, S. (2006) Women in formal corporate networks: An organizational citizenship perspective, *Women in Management Review*, 21(6): 458–82.
- Singh, V., Terjesen, S. and Vinnicombe, S. (2008) Newly appointed directors in the boardroom: How do women and men differ?, *European Management Journal*, 26(1): 48–58.
- Tajfel, H. and Turner, J. C. (1986) The social identity theory of intergroup behavior. In: Worchel, S. and Austin, W. G. (eds.) *Psychology of Intergroup Relations*, 7–24. Nelson-Hall, Chicago, IL.
- Talmud, I. and Izraeli, D. N. (1999) The relationship between gender and performance issues of concern to directors: correlates of institution? *Journal of Organizational Behavior*, 20: 459–74.
- Terjesen, S. and Singh, V. (2008) Female presence on corporate boards: A multi-country study of environmental context, *Journal of Business Ethics*, 83(1): 55–63.
- Terjesen, S., Freeman, C. and Vinnicombe, S. (2007) Attracting Generation Y applicants: Organizational attributes, likelihood to apply, and sex differences, *Career Development International*, 12(6): 504–22.
- Tharenou, P., Latimer, S. and Conroy, D. (1994) How to make it to the top? An examination of influences on women's and men's managerial advancement, *Academy of Management Journal*, 37: 899–931.
- The Age (2008) Clearing the Reykjavikage, October 10.
- Thomas, A. (2001) Women at the top in British retailing: A longitudinal analysis, *Service Industries Journal*, 21(3): 1–12.
- Thornton, E. (2008) Where Was Lehman's Board? Business Week Online. ([http://www.businessweek.com/investing/insights/blog/archives/2008/09/where\\_was\\_lehman.html](http://www.businessweek.com/investing/insights/blog/archives/2008/09/where_was_lehman.html)).
- Westphal, J. D. and Milton, L. P. (2000) How experience and network ties affect the influence of demographic minorities on corporate boards, *Administrative Science Quarterly*, 45: 366–98.
- Westphal, J. D. and Stern, I. (2006) The other pathway to the boardroom: Interpersonal influence behavior as a substitute for elite credentials and majority status in obtaining board appointments, *Administrative Science Quarterly*, 51: 169–204.
- Westphal, J. D. and Zajac, E. (1995) Who shall govern? CEO/board power, demographic similarity, and new director selection, *Administrative Science Quarterly*, 40(1): 60–83.
- Wikipedia (2008) Dina Merrill. ([http://en.wikipedia.org/wiki/Dina\\_Merrill](http://en.wikipedia.org/wiki/Dina_Merrill)). Accessed October 11.
- Williams, R. J. (2003) Women on corporate boards of directors and their influence on corporate philanthropy, *Journal of Business Ethics*, 41(1): 1–10.
- Windolf, P. (1998) Elite networks in Germany and Britain, *Sociology*, 32: 321–53.
- Wirth, L. (2002) *Breaking through the Glass Ceiling: Women in Management*, International Labor Organization, Luxembourg Conference.
- Wittenberg-Cox, A. and Maitland, A. (2008) *Why Women Mean Business: Understanding the Emergence of Our Next Economic Revolution*, John Wiley and Sons, London.
- Zelechowski, D. and Bilimoria, D. (2004) Characteristics of women and men corporate inside directors in the US, *Corporate Governance: An International Review*, 12(3): 337–42.
- Siri Terjesen** is an Assistant Professor in the Department of Management and Entrepreneurship at Indiana University. Concurrently, she is a Visiting Research Fellow at the Max Planck Institute of Economics in Jena, Germany. She has published widely in top journals and has co-authored the textbook *Strategic Management: Logic and Action*. She is on the board of Silicon Capital and is a member of the Global Entrepreneurship Monitor (GEM), the world's largest comparative study of entrepreneurial activity. Siri earned her Ph.D. at Cranfield and her Masters at the Norwegian School of Economics and Business Administration (NHH).
- Ruth Sealy** is a Senior Research Fellow and Deputy Centre Director at the International Center for Women Leaders at the Cranfield School of Management where she earned her Ph.D. She lectures on MBA and MSc courses and is co-author of the annual Female FTSE Report, the UK's census on women on boards on UK listed companies. She is on the editorial board of *Gender in Management: An International Journal*. A business psychologist, Ruth is also a management development consultant. In a previous career she set up, ran, and sold a small company in the travel industry with offices in London and the French Alps.
- Val Singh** is a Visiting Fellow and Consultant Researcher at the International Center for Women Leaders at the Cranfield School of Management where she earned her Ph.D. in Organizational Behavior following a career as a manager in university administration. She is co-initiator of the annual "Female FTSE Index." She has just completed a major study of gendered boardroom cultures in UK organizations. Formerly Gender Editor of the *Journal of Business Ethics*, she is Associate Editor of *Gender, Work, and Organization*, and has published widely. She speaks regularly on women directors, careers, and diversity on boards at international conferences.