Gender Barrier in Construction Industry:  
A Review of Women Involvement

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Abstract: The Nigerian construction industry has a low rate of women participation. However, despite increases in the number of women employed in the construction over the past years as well as the gender conventional law, they still constitute less than 22% of the work force. This means that the construction industry will continue to be male dominated. It is found that women are confronted by a significant number of barriers, beginning with difficulties in joining the industry through the most senior position in the organization’s hierarchy in order to create avenue for other women. In this research, this paper presents a review of the literature on the status of women in the construction; in particular, it discusses the barriers which prevent women’s entry and retention in the construction industry.

Key words: Barriers, Construction Industry, Women, Male Dominated

1. Introduction

The construction industry is typically a male dominated industry and presents a major challenge for equal opportunities for women. The Nigerian construction sector has a particularly low participation rate for women, both in industry and academia. Currently there less than six million women employed in Nigeria, accounting for almost 22% of the work force. The gender composition of the workforce throughout Nigeria has changed dramatically in the last 15 years; the Nigerian male labour force has
increased by six per cent, whereas the female workforce has risen by over two per cent (Cartwright and Cooper, 1994).

Whilst women may be entering the workforce in increasing numbers, female workers remain concentrated in certain occupational sectors such as education, health and service sectors, notably banking, insurance and the retail trade. In contrast, women have continued to be underrepresented and underutilized in construction industry sector which have been regarded traditionally as stereotypically “male” occupations. According to the Construction Industry Training Board (2003) women only account for 9% of the construction work force. This means construction continue to be a most male dominated industry. It is found that women are confronted by a significant number of barriers, beginning with difficulties in joining the field of construction and as far as to capturing the most senior position in the organisation’s hierarchy.

In this context, this paper presents a review of the literature on the current status of the women in construction, in particular, it discusses the barriers faced by women in terms of entry, development and retention. The image of construction, career knowledge amongst children and adults, male dominated culture and the work environment, male dominated courses, recruitment practice and procedures, family commitments will be discussed as the major barriers for women entering, working and developing in construction which lead to discussions on the need to identify appropriate recommendations and good practice guidelines to aid the recruitment and retention of women in construction.

The construction industry is one of the Nigeria chief employers, employing over 2 million people especially in urban and capital cities of the state. The role of the women in employment is changing radically in most societies, in Nigeria women constitute just over half of the total work force. However as per the Statistical bulletin report (2003) it was revealed that women still constitute only 12% in construction sector. The true position of women in construction could be seen only when this figure is further broken down. Accordingly, 84% of women in construction hold secretarial posts, whereas only 10% are employed in a professional capacity and the remaining 6% are craft and trade level employees. Court and Moralee (1995) noted that the under-representation of women in construction only became an issue in the 1980s. In 1988, less than 7% of the full time construction industry workforces in Nigeria were women. The Equal Opportunities Commission (EOC, 1995) stated in its annual publication that ‘women continue to be significantly underrepresented in the primary sector (agriculture and energy and water), in most manufacturing, in transport and communications and, in particular, in the construction industry.

Since then, there have been number of studies carried out by various researchers on the under-representation within the construction industry. (Gale, 1994a; Fielden et al, 2000). Thus the lack of
women in construction has been a concern for many years now. The studies in these areas have been invaluable in pinpointing the factors militating against the participation of more women in the construction workplace, and in particular, the recruitment into the construction professions (Agapiou, 2002). The Nigerian construction industry is busier now than it has ever been for a decade and is suffering from skill shortage in both craft and manual trades such as bricklaying, plumbing and painting, and at the professional level, in engineering, quantity surveying and estimating (Whittock, 2002). The issue regarding the lack of women in construction has been made more prominent recently, attracting government and industry wide attention, due to the potential skill shortage facing the industry. Therefore, the Nigerian government is examining the ways to encourage women into traditionally male dominated jobs. Since then a number of initiatives have been introduced in order to improve the current situation and raise awareness such as women working in construction committees and women as role models.

Though researchers have focused on how to improve the participation of women in the construction workplace, the objective seems to be to solve the labour resources crisis and skill shortages than to improve equal opportunities for women (Agapiou, 2002). Despite the number of recent recruitment initiatives, the industry has failed to make significant progress in recruiting more women. It can be seen from Figure 1 below where the number of women working in the construction industry has remained constantly low.

From Figure 1, it is apparent that women’s participation rate is low in the construction industry. The rhetorical question remains: what could be the reason behind this? One major reason is the barriers faced by the women working within the construction industry. The following section discusses the various barriers that prevent or reduce women entry and retention in the construction sector.

![Figure 1: Employee Jobs in the Nigerian Construction Industry 1984 to 2004](Source: Federal Office of Statistics)
The Barriers

Within the number of studies detailing the position of women in construction, the problems faced by women to enter and retain in the construction industry are considered as important. It is primarily the barriers which lead to a lower participation rate of women in construction. Therefore, it is vital to look into the problems faced by women entering into construction. There are several barriers on women entering and working in the construction industry. From the literature survey, the major barriers have been identified as the image of the industry (Gale, 1994a; Fielden et al., 2000; Fielden et al., 2001; Bennett et al., 1999), career knowledge (Gale, 1994a; Agapiou, 2002, Harris, 1989; Fielden et al., 2000), culture and working environment (Dainty et al., 2000; Fielden et al., 2000, Bennett et al., 1999), family commitments (Lingard and Francis, 2002, Fielden et al 2000, Lingard and Lin, 2004, Greckol, 1987, Agapiou, 2002), male dominated training courses, and recruitment practices (Fielden et al, 2000, Fielden et al., 2001). These barriers are discussed below in detail.

2.1. Image of the Industry

The image of the construction industry is typically portrayed as promoting adversarial business relationships, poor working practices, environmental insensitivity and a reputation for under performance (Construction Industry Board, 1996). The construction industry has an industry wide problem with ‘image’ which makes both men and women reluctant or uninterested in the industry (Bennett et al, 1999; Fielden et al, 2000). The literature identifies the industry’s image was found to militate against the entry of women. The predominant image of construction is that of a male-dominated industry requiring brute strength and a good tolerance for outdoor conditions, inclement weather and bad language (Agapiou, 2002). It is principally this image that makes the women uninterested in the industry. Gale (1994a) has found through his research that male school students are five times more likely than their female counterparts to consider a career in the construction industry. Also females consider the equal opportunities record of the construction industry to be worse than males. The Construction Industry Training Board also found that 63% of young women interviewed felt that it would be practically impossible for women to get jobs in the construction industry and only 17% thought that it would be a suitable career for them.

According to action research undertaken by Fielden et al (2001), the participants complained that the construction industry has a male-dominated, macho image symbolised by ‘the builders bum’ or ‘Stratford smile’. Therefore the image of the construction industry may be an important factor in the career selection process of young men and women (Gale, 1994a). Dainty et al (2000) found that women may not remain in the industry after education due to the incorrect picture of the industry portrayed by recent recruitment initiatives. Their research found that women are more likely to be attracted to the
industry by such targeted recruitment campaigns, and they noted that women who had entered the industry due to such initiatives ‘have a poor initial understanding of the culture of the industry and the inherent difficulties of working in such a male dominated environment’.

2.2. Career Knowledge

The image problem discussed above, which makes both men and women uninterested in the industry, is compounded by a general lack of knowledge and information about the industry, the career opportunities it can offer and the qualifications that are required (Fielden et al, 2000). The CITB (2003) found that parents, teachers and school children believe that the jobs in construction industry were limited to bricklaying, joinery, and painting and decorating. It is also found that teachers, parents, career advisors and school students have only a vague, superficial knowledge of the industry. Careers teachers and careers advisors were perceived by school students, undergraduates and graduates to provide inaccurate and inadequate information on the construction industry. Owing to the variety of courses and diversity of career paths even professionals careers advisers find the subject of careers advice for construction confusing (Gale, 1994a). Although a greater awareness has been found among ‘A’ level students and undergraduates, with regard to professional activities such as engineering and architecture, the status of the industry as a career opportunity does not compare favourably with other options (Harris, 1989).

This is mainly because the girls’ career choices, and in particular their encouragement to enter non-traditional occupations, is strongly influenced by their family, friends and teachers (Agapiou, 2002). The decision of selecting a career in the construction industry should be taken well in advance at schools level particularly by those who intend to be a construction professional in the future. The more that schools students of both sexes know about the construction industry the more likely that both sexes are to select a career in the construction industry. Knowledge of the nature of construction industry professional occupations, higher education routes to professional status and career opportunities in construction were seen as extremely important by school students considering a degree in construction. Therefore careers about an industry must be transmitted to school students (Gale, 1994a).

2.3. Culture and Environment

The construction industry displays a macho culture where relationships are characterized by argument, conflict and crisis (Gale, 1994b cited in Bagilhole et al., 2000). As a result, employees (male and female) find that they are exposed to an extremely hostile environment. Women who are attracted to the construction industry face the same stereotypical barriers as women in other sectors. In this male dominated profession there are added stereotypes regarding the nature of the profession and the professional themselves (Langford et al, 1994). Women who do enter the construction industry in
professional positions tend to fill technical specialist positions rather than general managerial posts (Bennett et al., 1999).

Bagilhole et al., (2000) noted that the construction workplace has been described as amongst the most chauvinistic in the world, with an extremely macho culture which is hostile and discriminatory towards women. This results in gender differentiated career opportunities which have an inevitable consequence of high staff turnover of women in construction companies (Davidson & Cooper, 1992; Brett & Stroh, 1994). Dainty et al., (2000) found that younger women became disillusioned with their career choice more rapidly than men, and sought to leave the industry early on in their careers.

However, faced with this organisational barrier, some women still seem able to gain a higher degree of career satisfaction and optimism than their male counterparts, as they continue to enter former male roles (Nicholson and West, 1988). Therefore, the male dominated culture can be especially destructive for women entry, career development and retention in the construction industry.

2.4. Family Commitments

Work-family conflict is defined as a form of inter-role conflict whereby job and family demands cannot be met simultaneously and is an on-going problem for women with career aspirations (Wentling, 1996). The conflict between work and family obligations, that many construction professional experiences, is more acute for women than for men. Recent research suggests that job demands borne by construction professionals are damaging to their personal relationship (Lingard and Francis, 2002). While men and women both need to balance the demands of work and home life, women still bear the primary responsibility for domestic duties in most households (Higgins et al, 2000). Site based employees, both professional and manual workers, are usually subject to changing work locations. This can involve travelling substantial distances and/ or long periods away from home, a situation which can present serious difficulties in terms of transport and child-care (Grecol, 1987). The construction industry fails to appreciate some of the issues associated with combining work and family commitments, and organisations tend to treat family and work as completely separate (Fielden et al, 2000). Through a study done by Lingard and Lin (2004) it was suggested that women in construction adopt an ‘either or’ approach to career and family. Also it is possible that women’s perception of the need to make a choice between work and family means that women who choose to have a family, develop lower expectations of the work experience and, consequently, the work-family conflict does not negatively impact upon their organizational commitments. However, women who expect to balance both family and career success in the construction industry may experience significant difficulties.

2.5. Male Dominated Training Courses
The mainstream courses and training provided by colleges, training organisations and employers create a whole host of problems for women arising from the male-dominated environment masculine culture (Gale, 1994a). Peacock and Eaton (1987) found that over half of the young women who returned their questionnaire reported during their training period of encountering a general disbelief among male instructors and colleagues that women could be technically competent. Access to high profile development opportunities (such as to enquiries and working groups) is often gained through informal networks and mentors.

Research shows that women tend to lack access to informal networks that provide information about such opportunities. Women are also more likely to be found in staff (personnel, HR, communications etc) rather than line (service delivery/ production) functions. An individual’s prospects for advancement can be affected by the number of opportunities they have to accumulate and demonstrate their merit (Burton, 1998; Wernick, 1994). Although increasing numbers of women have appropriate educational qualifications, Wernick (1994) found that there is still a perception that there is lack of suitably qualified women for senior management positions. She attributes this to the fact that women have limited access to the wide range of developmental experiences and activities that build the credibility needed to advance In addition, time in certain functional areas such as line management is seen to provide the kind of development which prepares people for more senior appointments and on-the-job experience is also seen to be of greater benefit than formal education and training.

2.6. Recruitment Practices

The recruitment process in the construction industry is said to be of biasness towards female workers. The terms and conditions within the construction industry were generally not fair enough irrespective of any particular gender. Through the study undertaken by Fielden et al (2001) it was reported that the industry fails to provide decent wages, pensions and other staff benefits especially at craft level. Dainty et al (2000) found out that male managers use discriminatory recruitment practices which put many women off applying for new positions with contracting organisations. The changeable nature of the construction industry was also felt to be responsible for high levels of unemployment.

It is mainly the terms and conditions of employment that make women uninterested in the industry. It was also pointed out that construction workers have to work outside the normal schedule, often time in dirty conditions which in their opinion made the industry unattractive particularly to women (Fielden et al, 2001). Many employers still consider women unsuitable for some traditionally male dominated jobs, for instance in the manual trades workers need a reasonable level of strength and fitness, with some job requiring above average upper body strength for lifting and heavy operations (Greckol, 1987)
3. Discussion

Women who choose careers in non-traditional occupations such as the construction industry have to face many challenges in order to enter and retain in the industry. The forgoing section discusses the major barriers faced by construction women in terms of entry, career development and retention. Mainly the male dominated image and culture of the construction industry strongly deter women from entering it. Fielden et al (2000) identified with this, citing the industry’s poor image as a reason why so many people, regardless of gender, are uninterested in a career in construction.

For women to be successful recruited and retained in construction, they need to be ‘supported, coached, and encouraged’. The industry needs to ensure that they are sending out the right message, that women can, and do, succeed in a career in a construction, and they are not just there to fill the current shortage of present. Because of the initial lack of knowledge about the industry, when women enter the industry and their understanding of what the career and the industry entails increases, women can become less committed to their careers, which can lead to them seeking alternative positions outside of the industry.

Nowadays, construction organisation are keen to portray themselves as equal opportunities employers and because of this, they have been criticised for recruiting ‘token females’ solely for this purpose, such behaviour could also be known as positive discrimination. When carried out correctly, these actions, accurately known as affirmation policies, aim to increase the number of women in construction, especially in more senior positions where females are severely underrepresented. In addition to these points, it would be illogical not to include money as a reason for women leaving the industry. In general women earn less than men do. In other words, women’s lifetime earnings are below than those of an equivalently skilled and educated man. Finally, the over emphasis on “male values” of the industry which include long working hours, working away from home and geographical instability, and a highly competitive culture; alternative working arrangements such as part time working, career breaks, and job sharing are considered as feminine and unfeasible in the industry.

4. Conclusion

This paper reviewed the literature relating to the barriers faced by women in construction. It is found through the literature review that image of the industry, career knowledge, culture and working environment, family commitments, male dominated training course and recruitment practices are the major barriers to women in construction.

Each of these barriers have been elaborated, and the possible difficulties that the women face due to such barriers in entering and retaining in construction have been discussed. Considering these barriers,
it is felt that the reduction or elimination of most of such barriers is an important step which leads to recruit and to retain more women into construction industry. Thus it is vital to identify appropriate recommendations and good practice guidelines to aid the recruitment and retention of women in construction as a good bait for even and rapid growth of a nation devoid of gender bias.

References


