Purchasing Family Homes: Feng Shui versus Sustainability

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Abstract

Feng Shui is an important element to be considered for purchasing real estate property for many Chinese families. The concepts of Feng Shui has been gradually adopted and accepted in the western world. It has been found that, in many perspectives, there are similarities between the concepts of traditional Chinese Feng Shui where harmony between environment, buildings and people are created; and western style of sustainability that focuses the harmonious relationship between human and nature. This paper reviews the Feng Shui elements considered by Chinese families and explores the main features considered by the Western families when purchasing a home. The results will be used as criteria for developing significant factors in future empirical study. Through case studies in Sydney, the findings will be compared and the elements that are similar or different will be discussed. The implications of the research will also be investigated.

Keywords: Feng Shui, Sustainability, Home purchase, Sydney

1. Introduction

The purchase of real property for most families is a big decision because of the large amount of capital investment and commitments to a mortgage. In addition to the finance, Feng Shui is an important element to be considered for purchasing real property for many Chinese families. Many Chinese families may be willing to spend a little bit more on a property if the property has good Feng Shui. On the other hand, if a property is cheap and affordable but may have bad Feng Shui elements, many Chinese families may decide not to buy the property. Why Feng Shui matters?

The term Feng Shui is an ancient art and science for harmonious of the built and natural environment developed over 3,000 years ago in China. The word Feng Shui can be translated literally as “wind-water” in English. Wind and Water are associated with good environment and health in Chinese culture (Lip, 1979). It was first taught in the classic text The Book of Burial published in the Jin Dynasty (276 - 420), some 1,700 years ago (Mak and So, 2011). Feng Shui is a complex body of knowledge that reveals how to balance the

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energies of any given space to assure the health and good fortune for people inhabiting it (Tchi, 2012).

In many perspectives, there are similarities between the concepts of traditional Chinese Feng Shui where a harmony between environment, buildings and people are created; and western style of sustainability that focuses the harmonious relationship between human and nature (Dong and Zuehl, 2009). In the Western culture, families tend to buy houses that contain features such as close to water, quieter street, nice neighbourhood, bright rooms and so on. In Australia, north facing houses seem much in favour by the buyers. Air circulation, energy efficiency and safety are the main concerns implied at building design process in the Western world (Mak and Ge, 2010).

This paper studies the Feng Shui considered by Chinese families and explores the main features considered by the Western families when purchasing a home. The study is considered significant as the findings can be a guide for designing the exteriors and interiors when developing properties. It can be also serve as a reference for town planning in the built environment contexts. The paper is first to review the Feng Shui concepts and the Form School of Feng Shui. The concept of Feng Shui design criteria and their implications on property purchases will also be discussed. Second, a desktop survey on features expected by the Westerners in their home purchases will be reviewed. The Feng Shui concepts and Western family’s views and expectation in purchasing a property will be compared through a case study. Conclusion and implications will be drawn last.

2. Feng Shui Concepts

Feng Shui is about the interaction of humans and their environments, i.e., creates harmony between heaven, earth and human (Mak and So, 2011). One of the most basic principles is unity between heaven and human, i.e., brings harmony between the universe, earth and human energy. The energy is valued in both the physical and the invisible form knows as “Qi” (or “Chi”, natural energy or breath of life) in the traditional Chinese Feng Shui culture. Skinner (1982) suggested that Feng Shui designs aims at a balance and harmonious environments that can produce an ample amount of good Qi (positive energy) and filter out the bad Qi (negative energy). This is one of the reasons why Chinese families look for good Feng Shui properties to attract “positive energy”.

The second concept is the Five Elements Cycles, which are fire, water, metal, wood and earth. Its theory is that everything in the universe has an attribute according to these five elemental groups of substances. The relationships of the five elements consist of productive and destructive cycles (Walters, 1989).

Yin and Yang harmony is the third Feng Shui principle. Yin represents the passive principles in nature exhibited as darkness, cold and wetness. Also the moon, femininity and passive, the realm of the dead and tombs are represented Yin. Yang represents the active principles in nature exhibited by light, heat and dryness. Also sun, masculinity and active, the realm of the living, building, towns, and cities are symbolized Yang. Yin and Yang are the two opposing parts but have a complementary relationship. A good Feng Shui means that Yin
and Yang are balanced and harmonious within a space, designed to create balance in the users' life when engaging in the space (Feuchtwang, 1974).

The Form School relates to physical configurations of landscape design and urban planning, and the Compass School focus to time, space and orientation are the two main Feng Shui Schools (Xu, 2003). The most prominent approach to the built environment and building design follows the principles and practice of the Form School (Lip, 1986; Xu, 1990; and Too, 1996), which is primarily based on the verification of the physical configuration of mountains and watercourses surrounding sites and buildings (Mak and So, 2011). The Form School consists of “Five Geographical Secrets”, namely dragon, sand, water, cave and direction (Lip, 1979). The combination of these five Feng Shui geographical elements and the four emblems (green dragon, white tiger, black tortoise and red phoenix as the four cardinal directions) produced the classic Feng Shui model. Figure 1 shows the Form School model that examines shapes and symbolism in the environment which can be applied to a property.

![Figure 1: Form School model (Feng Shui Store, 2012)](image)

The Red Phoenix is associated with the front of a property. The perfect scenario would be a meandering river to the front. The river can be replaced by a meandering road, or a circular flowerbed, or a low hedge/fence can be a replacement. The Green Dragon is associated to the left of the property. This feature can make up of either a building, tree or neighbours house. The White Tiger is associated with the right. It can be a building, a fence line or a tree. The Black Turtle is associated to the rear of the property. It can be a mountain behind, a row of trees, a building or a fence line to the rear.

A principle of balance between interior and exterior spaces is an important principle that describes the site conditions and the design of buildings. The location of the site, conditions that surround the site, topographical conditions and the shape of the site are called the Outer Form. The Inner Form consists of the layout of the building, elevations of the building, and elements of building (Lee, 1986). Cheng and Kong (1993) provided a further classification of space into four design modules: surrounding environment, external layout, internal layout and interior arrangement.

3. Feng Shui Design Criteria

Many scholars have developed their own design criteria based on the Feng Shui principles discussed above. Lee (1986) outlined three basic criteria for architectural design. Xu (1990)
derived four-step landscape model to deal with land formations. Han (1995) used 24 major
criteria for selection of the best location. Lip (1979, 1986) listed a set of standard rules of
thumb for assessment of architectural design. Choy (1999) suggested a ten-point design
criteria checklist for property selection and Rossbach (1984, 1987) provided a set of interior
design diagrams for furniture placement. A set of “standard rules-of-thumb” was developed
by Lip (1979) in accordance with the Form School of principles. These rules-of-thumb include:

- A building should be constructed on high ground instead of in a valley.
- A house standing on the triangular lot at a “Y” junction will suffer.
- Trees on the northwest side of the site protect the house.
- A big tree planted in front of the main door is unfavourable.
- A building located at the end of a narrow street will be an “unfortunate” dwelling.
- A desirable position will be obtained if the main road is on the west side of the
  building.
- An open field or garden to the south of the building is ideal. Windows and doors
  facing the north and south sides are desirable.
- The most important area of a building should be centrally located to reduce
  circulation space.
- Bedrooms located next to the kitchen are polluted and unfavourable.
- A house or a building must have a back door, which is not in line with the front door.

The rule-of-thumb was expanded to the application of interior elements include location and
direction of doors and windows; shape and structure of rooms; building components such as
walls, ceiling, structural beams and columns, staircases, etc.; room arrangement includes
the position of the bed in the master bedroom; the placing of the stove; refrigerator and sink
in the kitchen; lounge seats in the living room; layout in the bathroom and similar criteria.

The principles of Form School Feng Shui can be applied to houses that are located in cities
or suburban areas in term of surrounding environment, external layout, internal layout and
interior arrangement. Table 1 shows the key elements of Form School Feng Shui for a
building.

**Table 1: Key Elements of Form School Feng Shui (Mak and So, 2011)**

<table>
<thead>
<tr>
<th>Surrounding Environment</th>
<th>External Layout</th>
<th>Internal Layout</th>
<th>Interior Arrangement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topography</td>
<td>Shape of Site</td>
<td>Layout</td>
<td>Door Openings</td>
</tr>
<tr>
<td>Front of Site</td>
<td>Entrance</td>
<td>Doors</td>
<td>Bedroom</td>
</tr>
<tr>
<td>Rear of Site</td>
<td>Shape of Building</td>
<td>Windows</td>
<td>Kitchen</td>
</tr>
<tr>
<td>Sides of Site</td>
<td>Orientation</td>
<td>Shape of Rooms</td>
<td>Living Room</td>
</tr>
<tr>
<td>Street Location</td>
<td>Trees</td>
<td>Staircase</td>
<td>Bathroom</td>
</tr>
<tr>
<td>Water View</td>
<td>Pond</td>
<td>Ceiling</td>
<td></td>
</tr>
</tbody>
</table>

4. Contemporary Design Principles
Traditional Chinese Feng Shui are well known by the western world. In recent times, the combinations of traditional Feng Shui and western approaches have become more apparent. For example, contemporary architects in New York and Washington DC have consulted Feng Shui experts for their input on architectural and interior designs (Xu, 2003). Bioclimatic design approach is the common approach applied in the Western design world. The approach applies a logical sequence of analysis and constructs appropriate strategies to minimise the external impacts and rational use of resources (Olgyay, 1963). The bioclimatic design strategies aim to take advantage of the favourable environmental aspects, while avoiding or moderating the unfavourable impacts through appropriate design decisions. Axarli and Teli (2008) implemented of bioclimatic principles in the design of urban open spaces to improve human comfort which includes thermal comfort, visual comfort, acoustic comfort and improvement of building’s energy behaviour and air quality. The Comfort Triangles was an innovative concept to emphasise the periodic thermal behaviour of a space during a 24 hours interval or the average values of a series of days, rather than the conventional bioclimatic method that focus the conditions of temperature and humidity at a specific moment of time (Evens, 2007).

More recently, the concept of sustainability has brought into the design principles in the built environment contexts. The elements of sustainable design includes many areas such as waste and recycling, energy, water, building design, emission, indoor environmental quality (IEQ), alternative transport, landscaping, and about everything that do affects everything around human, aims to eliminate negative environmental impact and maintain ecologically sustainable completely through skillful and sensitive design (McLennan, 2004). Dong and Zuehl (2009) recognized that there is a set of five fundamental concepts for sustainable development. They are constructivism, circular design, energy efficiency, balance between natural and the built environment, and thinking global and buying local.

**Constructivism** based on human interactions with their environment to enhance the environment to make the space more enjoyable for the people using it (Dong and Zuehl, 2009). The *circular design* concept is a new design paradigm of “reduce, reuse, recycle” through the intelligence of natural systems, i.e., the effectiveness of nutrient cycling, and the abundance of the sun’s energy, etc. (McDonough and Braungart, 2002). *Energy efficiency* can be achieved by site planning and building design in accordance to sunlight and the use of various building materials and technology.

The concept of ‘**Balance**’ is one of the main principles of western design which aligns with the Feng Shui concepts. Widener (2009) advised to *balance between natural and the built environment* in designed to bring natural elements (such as sunlight, plants, water features, etc.) into a person’s environment that will change the behaviour of the user in the environment to a more harmonious and enjoyable space. Thinking global and buying local in the design principle means to reduce energy costs and wasted materials and increase the environments overall wellbeing (Dong and Zuehl, 2009).

Chinese Feng Shui and the Western design principles are similarities in term of that both systems target human wellbeing. The concept of constructivism translates well into the principles of harmony between universe, earth and human in Feng Shui. The ideal
environment for Feng Shui when these three aspects intersect and overlap. These three circles can be found in sustainable design as social contexts, environment and human as shown in Figure 2.

![Diagram](image)

**Figure 2: Comparison between Constructivism and Feng Shui concepts (Dong and Zuehl, 2009)**

The principle of Feng Shui is the productive and destructive cycles of five elements, which is similar to the circular design concept. The concept is the balance and harmony between Yin and Yang, which also matches with the concept of sustainable design of balancing between natural environment and the built environment. The Feng Shui concept of balance between interior and exterior spaces focuses on the physical form and spatial arrangement of the built environment coincides with the energy efficiency and buying local concepts that explicitly emphasise on the sources and consumptions of natural resources.

The difference between Feng Shui and the Contemporary models can be identified in term of research and analysis methods, analysis structure and criteria. Xu (2003) summarized their differences presented in the Table 2.

**Table 2: Comparisons of Feng Shui and the Contemporary Models (Xu, 2003)**

<table>
<thead>
<tr>
<th>Model</th>
<th>Research Methods</th>
<th>Analysis Methods</th>
<th>Analysis Structure</th>
<th>Analysis Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioclimatic Model</strong></td>
<td>Climatic factors: temperature, humidity, wind, etc.</td>
<td>Individual analysis and their correlation effects psychometric chart, and comfort zone</td>
<td>Frame structure</td>
<td>Human comfort</td>
</tr>
<tr>
<td><strong>Sustainable Design Model</strong></td>
<td>Nature process: geology, physiography, hydrology, climate, vegetation, energy efficiency etc.</td>
<td>Identify values for different categories and select a better fit environment and adaption</td>
<td>Layer structure</td>
<td>Fitting environment for development</td>
</tr>
<tr>
<td><strong>Feng Shui</strong></td>
<td>Qi and its relation with environment</td>
<td>Survey the mountain and water, find suitable area and arrange Qi</td>
<td>From big system to small sub-system</td>
<td>Living Qi should be abundant and harmonious with the surrounding</td>
</tr>
</tbody>
</table>
5. Case Study and Discussions

Two major applications of Feng Shui are site selection of buildings and sites for human settlement (Xu, 2003). Elements such as rivers, mountains, sun, soil, underground water, and the surrounding environment of the site are important factors for selecting sites though the rules and methods for selecting a housing site emerged over the years. The ancient Chinese believed that these major elements could influence the formation and circulation of Qi. The ultimate goal of Feng Shui is to find a place where Qi is abundant, so that the site can maximize its benefits for those who live there (Xu, 2003).

Three residential units are selected as case studies for analysis different views in home purchase decisions using the Feng Shui concepts and the contemporary models. The cases are located at Chatswood New South Wales Australia. Most of the information and photos provided by the real estate agents and recorded in the RP Data database contain positive perspectives of the properties. However, when each unit was investigated in details, negative elements were found in all three case studies. The key positive and negative elements of these three case studies are analysed and compared with the bioclimatic model, sustainable design model and the Feng Shui model. The addresses of the three selected units are listed in Table 3.

Table 3: Brief description of the three selected case studies in Chatswood

<table>
<thead>
<tr>
<th>Address</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2A Help Street, Chatswood - Regency Tower.</td>
<td>A three bedrooms and two bathrooms unit at 15-floor, faces the South East and revels in breathtaking panoramic views stretching all the way to the Pacific Ocean and taking in glimpses of the city skyline. Total 178 square meters.</td>
</tr>
<tr>
<td>Level 8, 11 Railway Street, Chatswood – Altura Tower.</td>
<td>A two bedrooms and two bathrooms unit at level 8, 11 Railway Street, Chatswood – Altura Tower. The unit is located on the North West corner of the building with 119 square meters including balcony, the bedrooms are separated by the living area which creates excellent space and privacy within the unit.</td>
</tr>
<tr>
<td>21-floor, 1 Cambridge Lane Chatswood – Cambridge Tower.</td>
<td>A three bedrooms and two bathrooms unit at 21-floor, Cambridge Lane Chatswood – Cambridge Tower. North-west facing, 3 bedrooms with ensuite with panoramic distance views, capturing the northern sunlight.</td>
</tr>
</tbody>
</table>

5.1 The External Environment

Chatswood is a suburb in the state of New South Wales, Australia, 10 kilometres north of the Sydney central business district. It is a major commercial and retail districts in the North Shore. In the 2011 Australian census, the total population of Chatswood was 21,194 people. There are two main shopping centres (Westfield and Chatswood Chase) and retail shops are nearby. The Chatswood railway station is on the North Shore Line and the Northern Line of the Cityrail network. The three selected units are located around 200 – 450 meters from the Chatswood railway station. The Altura Tower is located at the western side of the rail, while
Cambridge Tower and Regency Tower are located at the eastern side of the rail. The Altura Tower is near the Pacific Highway. Figure 3 depicts the relationship of these three buildings and their environment.

![Figure 3: The Chatswood Built Environment (Google Maps, 2012)](image)

There is a high-rise building at the southern side of the Altura Tower and low-rise units and houses are located at the northern and eastern side of the Tower. An office Tower building is located opposite. With regards to the Cambridge Tower, there are some high-rise buildings next to its northern side. A new construction is underway at its south-eastern corner. The southern side of Tower is facing the Chatswood rail station. The Regency Towers consist of Tower A and B both side by side. The water features and court yard are built between the two Towers.

5.2 The Internal Environment

All three selected units have open-plan layouts. Bedrooms are separated from the living areas to maintain a level of privacy. All rooms are bright with a lot of natural light. Positive and negative elements with three models are identified for each of the selected units.

The positive elements of the Regency unit are (Figure 4):

- Distance panoramic views to Pacific Ocean (Bioclimatic model) that brings positive energy (Good Feng Shui) and summer breeze from the ocean (Sustainable Design model)
- Open-plan floor layout and bright rooms with a lot of natural light (Sustainable Design model)

![Figure 4: Positive elements of the Regency unit (RP Data, 2012)](image)
The negative elements of the Regency unit are (Figure 5):

- South-East facing (Bioclimatic model) will result hot in summer morning and no Northern sunshine in winter (Sustainable model)
- Overlook the Tower B of Regency and distance view blocked (Bad Feng Shui)
- Overlook the roof of Westfield shopping centre and constant noise from cooling towers of Westfield shopping centre that brings negative energy (Bad Feng Shui)
- Irregular shape of bedrooms (Bad Feng Shui)

![Figure 5: Negative elements of the Regency unit (Source: the Authors)](image)

The positive elements of the Altura unit are (Figure 6):

- Balcony with distance views from North-East side (Bioclimatic model) that brings morning sun and summer breeze (Sustainable Design model), as well as street view (Good Feng Shui)
- Open-plan layout, bright kitchen and breakfast area with a lot of natural light (Sustainable Design model)

![Figure 6: Positive elements of the Altura unit (RP Data, 2012)](image)

The negative elements of the Altura unit are (Figure 7):

- The windows and balcony face a high-rise office building tower with large signage/logo on the opposite side thus Northern views are blocked (Bioclimatic model) that creates negative energy (Bad Feng Shui)
- Constant noise from the main road Pacific Highway (Sustainable Design model)
- The unit’s main entrance facing the building’s lift door opening (Bad Feng Shui) that brings negative energy (Bad Feng Shui)

![Figure 7: Negative elements of the Altura unit (Source: the Authors)](image)

The positive elements of the Cambridge unit are (Figure 8):
• Panoramic views to North direction (Bioclimatic model) that brings positive energy (Good Feng Shui) and large open-plan space with north facing balcony bring Northern sunshine in winter (Sustainable Design model)
• Separate kitchen and breakfast area (Sustainable Design model)
• The bedrooms are separated from the living room (Good Feng Shui)

Figure 8: Positive elements of the Cambridge unit (RP Data, 2012)

The negative elements of the Cambridge unit are (Figure 9):
• Construction site outside Western windows (Bioclimatic model)
• Direct line of sight incoming and outgoing trains to railway station from the balcony (Sustainable Design model) that brings negative energy (Bad Feng Shui)
• Mirrors on both opposite sides of wall create “ghost” effect of multiple reflections (Bad Feng Shui)

Figure 9: Negative elements of the Cambridge unit (Source: the Authors)

Based on the bioclimatic model, the three case studies are first compared according to the climatic factors, mainly directions and orientations in urban context. Secondary, based on the sustainable design model, three case studies are then analysed on the interaction with the natural environment, such as sunshine, wind direction, noise, etc. Finally, based on the Feng Shui model, these three case studies were analysed incorporating the holistic view of invisible energy between the built and natural environment. This process of analysis from bioclimatic model, sustainable design model to Feng Shui model is transited from tangible factors to intangible factors.

6. Conclusion

Traditional Chinese Feng Shui has been adopted, accepted and applied by the Western world in the built environment contexts. The principles of both the Feng Shui and the Contemporary models are similar in term of targeting human wellbeing and study the relationships between human and the built environment, though the analysis method, structure and criteria of the western and eastern principles are different. The distinct feature of western sustainable design has more emphasis on measurement of physical attributes such as efficiency of water and energy consumptions; whereas Feng Shui emphases are on
The balance of Yin and Yang, exterior and interior, the relationship between human and surrounding environment. The interpreting Feng Shui knowledge has embraced the western concept of sustainability. The Feng Shui concept should be used more and worked together with the Contemporary models in building designing and the built environment contexts.

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