Wright Architectural Design Process Review

Elham Nayeri Ahangar\textsuperscript{a}, Afshin Amozade Lichayi\textsuperscript{b}, Zohreh Ghobadi\textsuperscript{c}

\textsuperscript{a}Master Student of Architecture, A Member of the Elite Mazandaran, Babol, Iran.
\textsuperscript{b}PhD in Arts and Social Affairs Manager, University of Guilan.
\textsuperscript{c}Master Student of Architecture, Islamic Azad University, Rasht, Iran.

Abstract

In these human senses awaken the concern and attention of people and their view of a conglomeration of factors such as form, materials, natural phenomena of light, water, wind and fire is different and, of course, ways to achieve different results. in this comparative-analytical study. the study noted American architect Frank Lloyd Wright's ideas and understanding of the theory and design techniques that result is to achieve a certain quality space. Wright's original art design organic materials and organic architecture mixed with color. Louis Sullivan was the first person to analyze the concepts and architecture of Frank Lloyd Wright was his student and he has been a matter of empiricism in the design process. Bryan Wright has been trying to get through abstract shapes that characterize his architectural work. The dominant form and rhythm evokes landscape and also helps to shape and morphological approach is the creation of form and space that was.

Keywords: Organic, Empiricism, Morphological, Frank Lloyd Wright.

Introduction:

Frank Lloyd Wright disciple (Sullivan) Chicago professor, the famous American architect who taught at art school in Paris beauty has passed. As the first person in the United States, she totally imitate the architecture of the past and an eclectic cast of rescuing and lightness, without saying if the Americans, because the style of his favorite authors (Walt Whitman) and (Mel Weil) has been established. (Khyralsadat).
Despite this renown cultural massive range of his participation in the design, such as posters, brochures, typography and graffiti and books and magazines is relatively unknown. During the 90-year-old architect with over 60 years of continuous activity Barkhvad architecture and has implemented about 560 buildings. His genius was that his talent never dry spring did not approach Fayyad.

As the most famous American architect plans and writing ideas on organic architecture in the urban and architectural extended and expanded. His name than any other architecture is synonymous with organic architecture. Wright remained of the nineteenth century, but he alone without help his young imagination painters and sculptors architecture created in architecture. (Lloyd Wright)

Wright in his book of fading raised the idea spread in 4000 square meters. In this city every American family a acres (4047 square meters) of land from the government and makes his home. In this sprawling city buildings in a vast natural environment, or in a big city, with garden. Now the idea is to somehow burn can be seen around the cities of America and Canada. But Wright's original art organic building design was the most beautiful man-made possible nature and has been combined. (Qobadian)

Wright-depth study is needed to understand business and understand that at any point of the work manifested his strong character was not easily possible. (Lloyd Wright)

The aim of this study was to evaluate the burn is designed to achieve these goals in the first biography of Wright's style and his works examined and discussed in the final conclusion.

1. Date organic architecture:

Romantic philosophy is rooted in a vision of organic architecture. Romanticism is a philosophical movement, literary art in the late 18th century and 19th in northwest Europe that has spread to other parts of Europe and America. The movement was a reaction against the rationalism of modern reason.

As followers of classical thinking Romantics believed that the human mind was more about feelings and emotions, that's why

Most Romantic poets and philosophers to the celebration of nature, emotions and imagination paid to the fundamentals of the positive sciences such as physics and mathematics and logic believed. Romantic works evoke emotions, confusion and hallucinations and spectacular scenery of nature is concerned. That's why acclaimed romantic in nature, unlike the classic look is dominated Brtbyt.

Friedrich Wilhelm Schilling Romantic philosophy is one of the founders believed Which is a part of human nature and between man and nature is not break The architectural style of the artist must make a combination that is parallel to nature Life and growth and development process to show the abstract.

Ralph Waldo Emerson, American writer, poet and priest encouraged the artists to be inspired by nature. She artists to find the relationship between form and function driven in nature, he writes:
Nature of the system of forms and methods to create a mood that is directly applicable in the art. The famous French architect Viollet-le-Duc urged architects who created the laws of nature operate like the medieval sculptors who studied plants and animals have to figure out how they form a function to show or adapt to the characteristics of the organism.

Organic architecture in America in the 11th century by Louis Sullivan and Frank Furness was formed. It can be peak in the first half of the twentieth century Drnvshtarha and designs of Frank Lloyd Wright observed. According to Frank Furness based on organic theory all natural forms are dynamic. Forces and pressures that are involved in the structure of an animal, stretch muscles and joints When the creature moves, growth and expansion plan in the form of plants and shells can be seen, if a work of art is an expression of wishes, needs to be organic is made. It can not be separate parts but they must be part of a dynamic system and ductility are merged. Expressed in the architecture must solve physical forces that act on an organic body as possible.

![Example of organic forms found in nature](image)

**Picture 1: Example of organic forms found in nature**

**2. organic concept:**

In the early twentieth century architectural design philosophy which states that, the structure should have a plan that is consistent functional needs of its natural environment and form a rational matter and take an integrated whole. Shapes or forms designed in such a state is often irregular lines and looks are similar to forms found in nature. (Organic architecture or equivalent Andamyn it is Persian.) Wright is one of the pioneers of modern architecture. But crossing over to him the other way. The best evidence that his concept of ((free map)) is. This concept is not the same as indifference to the interior, but precisely the opposite in character ends up in this space. The concept of ((space imparted a)) inspiration, all writings ((Wright)) is. This clause of the inner organs, the importance walls and complete levels, the role of natural raw materials, refusing to retreat and accept all the variety of roots and eventually Gary (built) in the view of the surrounding elements that can have various works their quality has shone in private homes. (Khyralsadat)
Wright’s original art design buildings that are beautiful as possible organic, natural and man-made has combined.
Although unlike the organic architecture of international style, if not universal self, however, found followers in other countries. In Europe, the architects who design their theoretical principles of organic architecture was harmony can be Hvghrnyg and Henry municipalities German, Finnish Aalto and Dsytl in the Netherlands. Among the architects discussed this genre in America (after the death of Wright) Faye Jones was a disciple of Wright. (Lloyd Wright)

3. Famous architects in the style of organic architecture:

- Ralph Waldo Emerson
- Samuel Taylor Coleridge
- Hvratyv Graynv
- Frank Furness
- Louis Henry Sullivan
- Violet Lvdvrk
- Aalto
- Frank Lloyd Wright

Architecture is not just an activity event of a set of instruments not spend even art. The architecture is fundamental to all human affairs and has been created since the beginning of civilization. Because without it there is no possibility of the development of civilization or culture. Architecture, endless world is inevitable and basic needs. Architecture ranges from the most primitive to the most complex buildings to live in caves in the covers.

According to Ben Farmer, architecture is art that can not be separated from surrounding tissue conditions hold while inevitably have to act on it. Each has its own characteristics takes place. With the growing development of capital and wealth increased number of customers and will achieve the original specification was seen in the local architecture with more intensity. Although the economy has finally entered its effects on architecture but the main source of effective and immediate change in ideas and theories of architecture should know more philosophical.

4. Goals functional:
Knjkavtryn and one of the most inaccessible widespread and persistent phenomenon in demand that half of the nineteenth century requires a new architecture that peaked in 1890, when the business expanded considerably the development of the steel and concrete reformer.

Need to respond to new demands such as the need for industrial buildings, railway, shopping centers, prisons, banks, townhouses and ..., that was mainly caused by industrialization led Tnasbaty lines and forms We had no place in the alphabet architecture.

People like Jymzfrgysn in his theory of evolution feet of the classical and medieval forms have gone beyond ,his contemporary architecture due to the continuing emergence is consistent with a sustainable tradition and what was Ferguson and his followers wanted to change. In line with social and technical transformation taking place in modern civilization and order and customer are the last people who were
seeking a transformation. Architects and scholars in the nineteenth century to the advent of a new architecture to deliver significant results achieved and to compare the relative performance were the following:

- Architectural analogy with living organisms
- Compared Biology
- Comparable mechanical machine architecture
- Biological analogy

Perhaps for the first time Bvfmn that in his speech at the French Academy in garden style theme in elucidating the biological analogy, he said: The human mind will never be able to create nothing, unless through his mind experience and concentration is developed, means that the product of conception he forms his perceptions. Frank Lloyd Wright in Mrth titled in the architecture said to me that the architecture of organic architecture from the inside out in accordance with the conditions that make it possible to expand.

The idea of biological evolution as a modern thinking than can be used. This is also true of evolution just about architecture.

As Roman architecture Greek architecture evolved from Christianity evolved with the architecture of the period after its previous edition, the school follows the theory of evolution theory and the theory of functions of the form confirms that the forms were created to offer then the performance, and if changes occur in the form of functional forms due to the inability to take place and no form of performance comparison Nystd.ayn able to survive eventually led to the emergence of organic architecture in the 19th century.

5. Wright definition of architecture:

- Architecture starts when you put two bricks together with precision. (Lloyd Wright)
- Restrict architectural space.
- Architecture must be a prophet ...

A prophet in the true sense of the word ...
If he is able to see at least ten years before it can be called an architect.

6. Theoretical principles of organic architecture:

In something as a solid theoretical basis for the collection of organic architecture there. Not the words of Frank Lloyd Wright widespread and somewhat scattered and not statements more or less accurate, more or less closer Hoku Hoku Hering Hering and not statements of opinion and not the occasional Hans Scharoun and Aalto, none of which can not be is very useful. A simplified overview offers the following three principles:

1. Nature as a model: on a romantic getaway from the big cities and technical civilization, claiming that nature and its laws is the only guide and teacher.
2. Individualism: the philosophy of the Enlightenment tendencies doubt that, due to psychological assistance, individual and independent character of individual autonomy is encouraged.

3. Nationalism: solidarity with the country, culture, religion and traditions that individualism is located next to the cosmopolitan vision. (Lampvnyany)

1.6. The principles of organic architecture pulled out three traits and fundamental reasons:

1. Buildings as a natural element: This means that unlike the ideas of Le Corbusier organic structures such as butterflies over the meadow on the fly are not resolute, but also a full member, firm and humble form of the environment from which they are grown and also in the sense that it is not only logical, neutral white volumetric experience presents nothing more than some do not, but the primary colors that the school offered steel also passed out of use. Instead, all warm and colorful spectrum that is consistent with the medium to be used, it also means less use of synthetic materials such as glass and natural materials such as iron and greater use of stone, wood, brick, building and in the concrete case of necessity, -Ast, in the end, an architectural expression that is biased, not dominated by a rectangular geometry, which is free and has a richer vocabulary.

2. Building as a significant element: Each activity architecture, in its application that, in the prevailing economic conditions, in terms of location and its individual and psychological needs of the supplier in relation to its unique situation and therefore all aspects should be in the building design be considered. Thus the assumption that the basic needs of mankind all Mtsavynd rational, placed rejection. But what is the importance of respect for human aspects are varied and individual. Organic architecture fascination with technology, both foot and mobile is not rational.

3. Building a traditional element: Every home should have acquired their own special character, and not only through the building plan, environment and personal character for which he has made, but also in relation to the country where they are established based on the tradition that is rooted in them. This should be in the choice of materials, construction methods and expression and manifest design language.

2.6. According to Wright, technology is a means to achieve a higher architectural point of view, he certainly on May 20, in Talisin organic architecture was defined with the following words:

- Nature: Only the outside like clouds, Drkhtdan and animals, but also includes the building and its components and materials.
- Organic: the sense of assimilation and integration of the components of the total and the total ratio of the components.
- Form follows function: The function is not only correct, but the combination of form and function and the use of innovation and the power of human thinking in terms of performance is essential. Form and function are one.
- Gentleness: thinking and imagination of man must be hard building materials and structures as graceful form and human form. As we covered branches of trees and flowering shrubs is completed. Mechanical building should be in the hands of man and not vice versa.
- Tradition and not follow the thinking of mimicking the tradition of organic architecture.
- Decorating: integral part of the architecture. The relationship between architecture and decorative elements such as flowers is to plant trees.
- Spirit: Spirit is not something that induced the building, but must exist within it and expanded from the inside out.
- The third dimension: the third dimension, but contrary to popular belief thickness and depth.
- Space: is the element that must constantly expanding. Space is a hidden foundation of the entire rhythm of the building should be stems from the flow.

7. Frank Lloyd Wright:

Frank Lloyd Wright, a British-born American for two years at the University of Wisconsin to study engineering and for a short time in the workshop Sylzby Joseph Lehman, who introduced him to the principles of Shingles style, had worked, in addition to the limited formal education and small, love of rural areas for the first time, under the influence of his grandfather's farm in Spring Green, Wisconsin, he had emerged. He Hendry Louis Sullivan and Dankmdar Dirpyyst workshop in 1888 and was there until 1893 and was engaged to design residential buildings. During this period, some of the principles that Sullivan called his dear master, that is unpretentious and simple philosophy of the Founding Fathers of America, individualism, naturalism is strongly emphasized by Henry David Thoreau and Thomas Jefferson and architecture east coast of America, as Hendry Hobson Richardson and McKim and William Rutherford Mead Bruce Price and Charles FVln attracted and Stanford White. Shingles style and charisma ultimately transcendent mathematics Vgyray foreign lands and traditional Japanese architecture that Wright first time in Colombia's pavilion at the World Expo 1893 in Chicago Zapn be considerable. (Bonnie M)

As a result of Wright's personal love for nature is to negate the big cities and in favor of the suburbs. In 1889, his workshop in Oak Park, a suburb of Chicago-based green urban patrician building, where he found that customers in the loop of a patronizing attitude towards intellectual and humanitarian and progressive respectively.

They assumed that the first private, single-family homes establish freedom as the core theme of the new democracy prevailed. Democracy means many people the happiness that was as much as individualist, was a fantasy. After a dubious action in applying R & Style Pork (in design Myldvaky Library, 1893), finally and definitively as an anti-extremism and anti-European classical cast, the wording adopted, according to which, the ideal of organic architecture as a new style of America in the field of cultural expression.
One of the most important and most creative architects and theorists of the twentieth century. The architect over ninety years of his fruitful life over sixty years of continuous activity, and about five hundred and sixty-building architecture is implemented early. Khans flat plains have been known to burn the houses. Of the characteristics of these buildings can be Vknsl windows through the roof and horizontal view it parallel to the ground and show noted in the building materials. The most prominent of these buildings should house in Chicago named Ruby. (Qobadian)

House, the main task of building modern architecture, Frank Lloyd Wright, in general gave a new interpretation of the house. In his book "natural home" your comment conclude that "In the beginning I realized that the settlement is basically like a cave, but such a large shelter in the open air, always on the landscape - and intra is out." Wright's first work was published in Germany in 1990 and 1991 and was European sparked a revolution in architectural approach. C. R .ashby in the introduction of a German editions of his book, "Wright realized that new ideas) like Sullivan's ideas (for private home use, and create new house that is completely unprecedented.

Frank Lloyd Wright in an article about the cause of the architect said: I mean it's organic architecture architecture from the inside out in accordance with the conditions that make it possible to expand. The idea of biological evolution as a modern thinking here than can be used. (Gydyn)

Some of Europeans own interpretation of organic architecture that Wright is probably the source of the ideas and discourses, but it's more functional architecture or architecture perceived justification.

But if Wright did not succeed in defining organic in words, define and his interpretation of the term, or more precisely of this quality, in the language of architecture is quite successful, and indeed commendable. This quality is reflected in some of the most burning and raising the height of the waterfall reaches home architecture brings it into existence that's because natural elements such as rocks, trees and plants and flowers blooming through nature and originality and strengths of the same from the efflorescence and natural without it. Hence, in this type of architecture is the architecture that should be no artificial absent. Burn the term "organic architecture" with other terms such as dynamic, vital,
substantive and comprehensive definition and synonyms of the Mnizvkhvd with the term "organic" Persian equivalent of "body schema of" the highlight.

Some elements of form and space naturalism Wright architecture:

- Adherence to architectural space and form topographic features of the land.
- Use natural materials for elementary and raw.
- The release in nature.

Frank Lloyd Wright's career, a period of more than seventy years old, still dominated created a variety of architectural forms. He relies on its significant capacity for innovation should not be confused with eclecticism. As we patiently repeats Mies van der Rohe, the European Enlightenment embodied the myth, persistent and tireless changes forms legend Wright represents the first American immigrants have always marched to the conquest of new lands to any time in changing conditions and be renewed. But the old master to his warnings about avoiding the rapid change in American thinking was not unreasonable because, according to such thinking he might be poisoned. Wright architectural expression more than it was in relation to his personal character that could create a large school. At the same time he was MILkhm of different types of architectural movements. His influence due to the intensive propaganda bias and its projects can be deepened. He has held numerous speeches, his views on architecture are emphasized in numerous books, outlines and much of their work was published. His architecture, called his instrument, he went his way, with -Hal Weather particular artistic and adventurous life, meant that the aura of a mythical state around comes around. This later by his followers around the world helped to release organic architectural thinking was reinforced.

2.7. Wright works
1. Waterfall home :

Wright masterpiece Kaufmann house (39-1935), which is also known as Fallingwater, and creative synthesis of organic architecture and Cubist elements and is rational. The building near Mill Run, Pennsylvania is located. This luxurious mansion on top of a water stream and is located in the very spot where a small waterfall is formed. The house is at the edge of the hill by the bridge that leads to a narrow path is available. A concrete canopy, space interface between outside and inside the building.
2. Guggenheim museum:

The museum of the famous museums of New York. The museum is located on the coast northeast of downtown. The museum halls are interconnected and form worm, remains one of the finest examples of modern architecture is, in this Museum of Art, the audience easily penetrate the inner and angles of the building and is part of it. The sculptural form oriented outside looks simple and devoid of any decoration on the levels, patterns inner space defines and structures the museum are made of reinforced concrete. Wright require large exhibition space on a limited floor space by putting on the height solved and the conjunction of space created by the ramp - the floor, the difficulty of visiting a high class building to be compensated.

Picture 4. Frank Lloyd Wright Guggenheim Museum

3. Home Vylyts:

Vylyts home in Highland Park, Illinois, Meadows is a perfect example of the kind of house that was built in 1902. Cruciform plan it around a fireplace (fireplace) which is located in the center, is formed. While each have their own individual spaces independent character, but freely interfere with other spaces and create a living continuity. The two non-symmetrical wings like two arms open to infiltrate the park around buildings, parks it to the edge of the meadow walls of the building continues. The house and nature, the path system, are integrated in each other. It integrates low-slope roofs that are characterized by protruding from the facade and emphasize the horizontal elements of the facade and the use of natural materials that are environmentally Mvzvj, is further emphasized. (Lloyd Wright)
3.7. In terms of organic architecture and its leaders "Frank Lloyd Wright"

All natural forms are dynamic. Organic components of a work of art if he should be in shape a dynamic system are integrated in one another. Organic basically means assimilation and integration of the components of the entire total of the components.

From the perspective of Wright's organic architecture that is at the tradition and follow it. He did not agree imitation of tradition, just follow. Decorating the organic thinking is an integral part of architecture. Decorating relationship to the architecture of the branches of the bushes like flowers, gentleness organic architecture is an integral element. Thinking and imagination of man must be hard building materials and structures into human form and has not been pleasant. The nature of organic thought only of trees outside environment but also inside the building and its components and materials are a part of nature. Total organic architecture will have a link with nature and nature is nature oriented.

Discussion and conclusion:

After reviewing the works of Wright to the conclusion that Frank Louis Wright was a practicing architect. the organic sector in the wake of the acclaimed romantic philosophy based on the nature and form of architecture is mixed with the colors of nature worked. Buildings designed in a way that seemed to come out of the ground. Wright's theory of empiricism and the creation of form and space and morphological approaches are followed. Wright spent seven years with Sullivan at Sullivan's disciples and organic style, and this has had an impact on his empiricism. Morphology also for this reason that his work was inspired by nature and natural materials and products used in building it.

References:

Bonnie M., Amir, postmodernity and architecture, the intellectual currents of contemporary architecture in the West, spreading soil.

Gydyn, Zygfrd, Space, Time and Architecture, translation M. ornate, Cultural and Scientific Publications.
http://designcrave.com
Khyralsadat, Akram al-Sadat, garlic and architectural ideas, full of thoughts, ideas and works of Frank Lloyd Wright, Yazd Scholars Publishing.
Lampvnyany, Vytvryvmanyagv, architecture and urbanism in the twentieth century, translation Laden E'tezadi, martyr Beheshti University Press.
Lloyd Wright, Frank, Frank Lloyd Wright's architecture 3 series, publisher of Islamic Art.
Lloyd Wright, Frank, Frank Lloyd Wright's oeuvre, The Art of the Century.
qbadyan, V. Iranian contemporary architecture, architect Science Institute Press.
Qobadian, V., principles and concepts in contemporary architecture in the West, the Cultural Research Bureau.