

Organic abstract in sculpture and its role in formulating aesthetic and expressive values in contemporary architecture

Prof. Mohamed Mohamed Ali Shaheen

Professor Doctor of Sculpture Department, Faculty of the Applied Arts, Helwan

d_shaheen54@hotmail.com

Dr. Marwan Abdu-Allah Hussien

Lecturer in, Faculty of the Applied Arts, Helwan University

marwan_hossien@a-arts.helwan.edu.eg

Researcher. DiNa Radwan Mohamed Radwan

Freelance Designer

raheel.saqr@yahoo.com

Intro:

Abstract sculpture has arisen because representational sculpture had been exhausted ,out of boredom with sculpture facts, and by a common and powerful impulse, the sculptors turned to abstract sculpture as a pure aesthetic activity, they were driven to abandon the imitation of natural appearance, so rigid forms appeared lacking fluidity and vitality, and by the time the older claims of abstract art have lost the original force of insurgent convictions which had once upheld this art as the logical goal of the entire history of forms and they have refuted themselves in returning to the impure natural forms, subsequently the sculptors realized the underlying order of nature as a sculpture of pure form without content, so organic abstract however was the logical and inevitable conclusion toward which sculpture art was moving , and the aesthetic and expressive values of abstract has itself become a brake on prioritize appearance ,and following an attitude that seeks to translate the forms found in nature into unique pieces of art involves the liveliness of nature and its vibrant essence, and instead of the inspiration from science and technology, and the aesthetic of plastic and metal sculptors began turning to the inspiration found in nature, and sculptors who embraced the philosophy of organic abstract sought to translate the principles of natural form into their work, channeling the look of organic objects and mimicking the flow of natural currents. This attitude summarizes the success of some architectural designs that have taken sculptural organic abstract as a basic reference for formulating the aesthetic and expressive values of contemporary architectural forms, so those architectures appeared as abstracted organic sculptures in its urban spaces, therefore, activating the principles of sculptural organic abstract in the architectural design process can change the attitude of local contemporary architecture towards a sculptural architecture which is more alive and exciting by the essence of nature if local architects adopt an open minded attitude toward other arts cultures.

Keywords:

Organic abstract, Aesthetic Values, Expressive Values, Sculpture, Contemporary architecture.

Research problems:

- What is the importance of the role that sculptural organic abstract plays in formulating aesthetic and organic values in contemporary architecture?

- What is the possibility of reaching mechanisms that governing the process of formulating the aesthetic and expressive values of sculptural architectural forms which inspired by nature in an organic abstract manner?

The research assumes the following:

- The architectural design process can be enriched by the role of an organic abstract in sculpture, which leads to a great diversity of architectural forms that carry aesthetic and expressive values.

Research objective:

- Exposing the role of sculpture in contemporary architecture design by presenting architectural works based on organic abstraction in sculpture in the formulation of aesthetic and expressive values.

Research importance:

- Highlighting the aesthetic and expressive values of the sculptural architectural forms that depended on the style of organic abstraction in their design.

Research Methodology:

The research follows the descriptive and analytical method.

The definition organic abstract:

It's a term uses nature not as a subject matter to be represented but as a source of formal ideas.

Abstract Pioneers:

- Joan Miro (1893 – 1983)
- Henry Moore (1898 – 1986)
- Jean Arp (1886 – 1966)
- Isamu Noguchi (1904 – 1988)
- Barbara-Hepworth (1903 – 1975)
- Constantin Brâncuși (1876 – 1957)



Lunar Bird, Joan Miro, 1945.



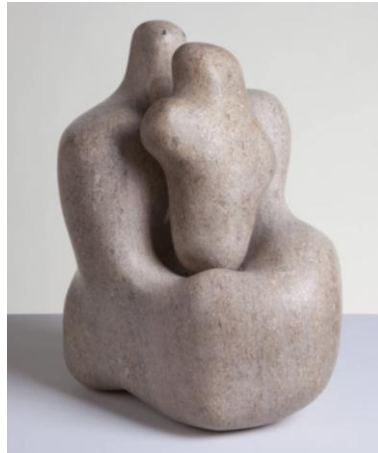
Mother and Child, Henry Moore, 1977.



Silent, Jean Arap, 1942.



Black Sun , Isamu Noguchi, 1969.



**Mother and Child, Barbara
-Hepworth , 1934.**

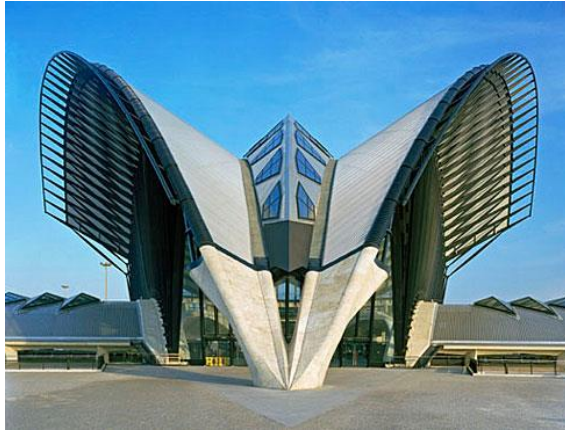


**Pogan , Constantin
Brâncuși , 1927.**

Aesthetic and expressive values:

Aesthetic and expressive values unite via the form of lines and industrial models ,so the art work, whether even sculptural or architectural can be described as an evolution of formal and sensory relationships, and the excitement caused by the organic abstract method can be observed for expressive and aesthetic responses of relations among surfaces, shapes, proportions and colors, which are based on direct awareness of the mechanism of organizing these relationships.

Perhaps one of the most prominent architects who were influenced by the determinants of formulating the aesthetic and expressive values of organic abstract in architectural sculpture in their architectural designs was "Santiago Calatrava" whose works bear the strong identity of sculpture, which made people around the world nicknamed him the sculptor engineer. The following is a presentation of examples of his works that illustrate the influence of organic abstract in sculpture :



Saint- Exupéry , France,1994.



Twisty Tower, Sweden,

2005.



Hemispheric ,Spain 2007.

Some of the mechanisms of formulating aesthetic and expressive values inspired by contemporary architecture can be drawn from organic abstract in sculpture:

- Downsizing
- Shorthand
- Misrepresentation
- Modulation
- Brevity
- Simplification

The role of organic abstraction in sculpture in formulating aesthetic and expressive values in contemporary architecture can be summarized in the following points:

- Providing renewable treatments for the determinants and foundations of nature that contribute to building a sculptural architecture that does not consist of nature itself, but whose forms are linked to nature.
- Foundations have been laid for the integration of spaces of architectural formation through a homogeneous integration that provides an organic blending with nature.
- It has taken contemporary architecture to a new level through the use of new forms of concrete, such as expressive arches that are devoid of apparent connections and columns, and the rule of curved lines that form nature.

- Contemporary architecture has drawn inspiration for its rules from the laws of living nature, respect for natural materials, and the continuous search for new building methods that allow free expression, which is a fundamental feature of organic abstraction in sculpture.
- It is directed towards the use of motifs objectively without cost, provided that these motifs are borrowed from nature and in accordance with a logical framework that serves the smoothness of formation and corresponds to expressive fluidity.

Results :

- Organic abstract has had a strong influence on the intellectual methodology of contemporary architecture designers.
- Thanks to the organic abstract of sculpture, aesthetic and expressive values appeared in contemporary architecture that did not exist before.
- Contemporary architects have used sculptural forms that bear the characteristic of organic abstract in designing architectural works that have functional characteristics that meet human needs.
- Organic abstract is in itself a truth-processing process from which a new reality is born.
- The primary goal of organic abstract is to delve into the depths of forms and liberate them from their form to come out with their spiritual essence.
- The mechanisms of formulating the aesthetic and expressive values that govern organic abstract aim to enhance the ambiguity and attractiveness of shapes in both architecture and sculpture.
- The sense of aesthetic values and the perception of the expressive values of the figures is not related to the similarity of their external body with the natural body, but to the extent of the designer's success in employing the mechanisms that govern the process of organic abstraction to highlight the vitality and ambiguity of the natural form in the abstract form.

Recommendations:

Research recommends:

- Studying the reasons for the influence of contemporary architecture with organic abstraction in sculpture.
- Designing organic abstract models that inspire contemporary architecture.
- Creating art exhibitions of sculptural models that have been transformed into architectural works based on the aesthetic and expressive values of organic abstraction in sculpture.
- Activating the role of the sculptor designer in the architectural design process.
- Open the way for designers to compete creatively to present architectural experiences that depend in their design on the method of organic abstraction in sculpture and the implementation of the distinctive ones in contemporary local architecture.

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