

IDA: ADVANCED DOCTORAL RESEARCH IN ARCHITECTURE

IDA: Advanced Doctoral Research in Architecture

Sevilla: Universidad de Sevilla, 2017.

1.408 pp. 21 x 29,7 cm

ISBN: 978-84-16784-99-8

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Seville, november 2017

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MODERN ARCHITECTURE IN MANZANILLO, COLIMA, MEXICO 1930-1970 (TRANSFER AND ADAPTATION)

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Summary: The language of Modern Architecture in Latin America is the result of a process of transfer and adaptation of ideas, generated by the great European masters such as Mies, Gropius and Le Corbusier, due to the particular characteristics of each context they had to adapt to geographic, climatic and social conditions, this regionalization of architecture was the same in Argentina, Chile, Brazil and, of course, Mexico, in turn, allowed to be a catalyst in the transition towards the modernity of cities. In the modern architecture of Manzanillo some of the projects and works carried out in 1930 - 1970, this process becomes evident, which will become a part waters in the modernity of the city.

Architectural compositions of the national program projects of which Manzanillo was included (schools, hospitals and tourist infrastructure) by foreign architects, print media (construction manuals, magazines, newspapers, brochures, postcards, etc.) and constant migratory flows of professionals who arrived at the port due to the commercial boom facilitated the transfer of the concepts of Modern Architecture.

Keywords: Architecture, Modern, Transfer, Adaptation.

1. Introduction

I present in this document the advances made up to the 4th semester of my doctoral thesis, where the analysis of information is the main point of the research process, whose objective is to be able to propose specific guidelines for the presentation of results in the final semesters, as well as the tools used for the analysis, collection and classification of the information collected for this project, which shows that there is an adaptation of the Modern architecture, which arrived using various means resulting in the traditional architecture and all its elements transform and give rise to the modernity of the city.

This research project seeks to contextualize the Modern Architecture of the city as a result of a process of transferring ideas, spatial schemes, architectural programs, new materials, etc., which starting from most of a central geographical point of reference as was the Mexico City, is diluted by the interior of the country using various mechanisms for its diffusion, with the attenuating that will have to adapt to the particular conditions of each context, will appear in the national scenario new architectural typologies that through a regionalization as a whole will what has been defined as other modernities, which will be located in the interior of the country, which do not exclude the main ideas of the great international or national masters, nor are they far from the principles of CIAM, rather they become a new manifestation of this architecture.

Given that Modern Architecture in Latin America had a suitable setting for its diffusion, its great cities in the twentieth century were the majority in processes of transition to modernity, some had the devastating effects of the social revolutions of the time, so that immediate reconstruction measures were necessary, enabling them to be the main catalysts in the construction of a new social fabric, appearing new ways of building, new materials, new ways of inhabiting and conceiving spaces.

The urban transformations were based on the hygienist principles of the time and on manifesting the International style, emphasizing the typologies that reflect that incipient Modernity through architecture, which would have to adapt according to the particular contexts of each region, such as: Climate, materials, technology, culture, geographical location, etc., Manzanillo will be of those cities that will have a process of transformation according to the needs of their time, where the traditional architecture and its elements will have to adapt to a new changing society and industrialized, where the rapid intervention of experts is required to adapt the functional and typological conditions of the city in the new challenges of the twentieth century. Capilla (2010) tells us, "But it has never been in the goals of architecture that the replacement of customs or the uprooting of traditional issues of a city, or even the elimination of its most popular aspects. In normal conditions, architecture has attempted to be a logical consequence of its time, an instrument that in some measure wants to measure the degree of modernity and commitment of a".

2. Problem approach

2.1. General hypothesis

Some of the projects carried out by the private initiative and those proposed by the national plans of education and health between 1930 and 1970 in the city of Manzanillo are the result of a process of transfer and adaptation of the space compositions of Modern Architecture.

2.2. General inquiry question

How were the concepts of Modern Architecture interpreted in some of the projects and works in the city of Manzanillo between the years of 1930 and 1970?

2.3. General objectives

Identify the architectural projects and works carried out in Manzanillo between 1930 and 1970, institutional or private, in which according to their architectural composition a process of transfer and adaptation of the characteristics of Modern Architecture (Free Plant, lack of ornamentation, composition modular, building materials and systems, etc.).

2.4. Particular hypotheses

Architectural compositions of the national program projects of which Manzanillo was included (schools, hospitals and tourist infrastructure) by foreign architects, print media (construction manuals, magazines, newspapers, brochures, postcards, etc.) and constant migratory flows of professionals who arrived at the port due to the commercial boom, facilitated the transfer of the concepts of Modern Architecture.

The particular characteristics of the context such as climatic conditions, geographical location, unskilled labor, quality of materials, was an important variable in the process of adapting the concepts of Modern Architecture in the spatial composition of works and projects in Manzanillo between 1930 and 1970.

The typology of the Architecture of Manzanillo between 1930 and 1970 brings new elements resulting from the conditions of the context to the Modern Architecture realized in Mexico.

2.5. Private Investigation Questions

What were the mechanisms that allowed the transfer of the concepts of Modern Architecture in the projects and works carried out between 1930 and 1970 in the city of Manzanillo?

What were the main determinants for adapting the space compositions and concepts of Modern Architecture in the local architectural production of the years 1930 - 1970?

What was the contribution of the architectural production of Manzanillo made between the years 1930 and 1970 to the concepts of Modern Architecture in Mexico?

2.6. Particular objectives

Indicate the means used in the process of transferring the concepts of Modern Architecture in the projects and works carried out between the years 1930 - 1970 in the city of Manzanillo.

To present the result of the process of adaptation of the ideas of the Modern Architecture in the architectural composition of the works and projects. To expose the elements and spatial schemes that were the result of the process of transfer and adaptation of the concepts of Modern Architecture in the projects and works of Manzanillo between 1930 and 1970.

3. Sources consulted

Maya (2014) tells us that "The main sources of scientific work are books, reference works, encyclopedias and dictionaries, indexes and abstracts, periodicals and information banks." In the process of this documentary research for this theoretical - historical project, data have been collected from various primary and secondary information sources in which the selection, classification of data and their references according to the needs and scope of the subject, the resources most used in this process are: books, magazines, newspapers, plans, etc.; found in libraries, newspaper libraries, photo libraries, documentation centers and private collections, which contain information that must be selected and analyzed, using data collection instruments designed according to the scope and characteristics of the project that facilitate the registration and classification of data.

During the data collection process, the main libraries of the country (Mexico) of some universities have been visited, such as the central library of the UNAM, Lino Pikaseño library and Luis Unikel of the university's faculty of architecture, Instituto Tecnológico de (ITESO), library of the faculty of architecture of the University of Colima, library Mexico, Lerdo de Tejada, José Vasconcelos. Institutional documentation centers such as the general archives of the nation, historical archives of Colima, the municipal archives of Manzanillo, the documentation center of the Secretary of Health, the IMSS's historical archive, the INAH's photo library, the national newspaper archive, the archives of Mexican architects UNAM, newspaper library of the University of Colima and some particular photographic collections.

4. Design of information collection instruments

In this process, specialized bibliographies, agreements, councils, edicts, architectural magazines specialized in Modern Architecture such as Calli, Spaces, Architecture Mexico, Cement, planes, sketches, postcards of the time, theses, reports, etc., there have been some interviews with chroniclers, specialists in the field, historians, owners, etc.

The tools proposed for the study phenomenon of our research project will allow us to better manage and classify the information collected in the various sources that have been used in the data collection process. Due to the great diversity of documents that have been consulted and according to their characteristics, it is not possible to homogenize a single criterion for the design of a template, otherwise this data should be classified and separated by tools that allow a better analysis, classification and order of the information with elements that are according to the characteristic of the type of source consulted.

5. Analysis of information

In the research stage the purpose of the analysis of the data collected Hernández (2009) states that

"it serves to estimate parameters and test hypotheses" and Gómez (2005) states that "this exercise will segregate information or eliminate the least important, to ensure the presentation of the most relevant information. However, once the essential points of the information have been identified, it is necessary and pertinent to analyze them in more detail, and thus to make value judgments that have greater depth "

During the process of historiographical analysis of the theme: Modern Architecture in Manzanillo, Colima, (transfer - adaptation), some tools have been proposed previously to order, classify and analyze a series of data collected in different types of sources such as public collections, private collections, newspapers, magazines, photographs, postcards, books, advertising brochures, etc. The information obtained has been selected and valued to be able to carry out in detail an inventory of projects and works.

The validation of these data and dates made it possible to define a temporality to carry out a more objective analysis of the elements of study, taking as reference the obtained data, a period between the years 1930 to 1970, to explain the process of transference of the ideas, theories, principles, spatial schemes and characteristic elements of Modern Architecture and their adaptation according to the context in the local architectural production.

It is important to point out that the main objective of this research project is not to elaborate a catalog of Modern Architecture in Manzanillo, but to take as reference the existing tangible elements corresponding to that period for the verification of the hypotheses. Noelle (2005) tells us "The works built on what we can call" the last century "have been faced by the contempt of those who seek to preserve that legacy that is not covered by the brilliance of history; they have not only fallen prey to neglect and destruction, but in some cases they have been denied the right to insert themselves into historical urban fabric, unlike the creations of earlier centuries"

It was of vital importance in this research project, the processing of the data, implying a detailed analysis of each information collected, classifying it according to the nature and relevance of the same, becoming a reference to solve the problem, verify the hypotheses, and to have the necessary elements to prepare the final report.

The result of this analysis is concentrated in final formats that explain in detail the selected elements, as well as complementary references (notes, sketches, newspaper articles, magazines, photography, etc.) that allow us to validate the authenticity of the information.

As a starting point was the filling of the cedula containing an inventory of the modern architecture of the city classified according to its gender, with the aim of being able to determine objects of study that could offer us precise data about each of them, proposing the the following variables for their individual identification, Name of the building, Builder or designer, location, dating, current status and personalized key for quick identification, it is worth mentioning that some existing buildings were not included due to the lack of access to the information or not they had the disposition on the part of the owners. (See Table 1). Continuing with a photographic registration card identifying the property, which allowed us to know its current status, location, dating and supplementary data and then make a final classification based on information obtained from the various sources consulted.

A mapping map is proposed where the object of study is contextualized in a general way by means of a map of the city that indicates the location of the selected buildings, which allowed us to define our area of study. Continuing with an individual analysis card that is complemented with references found in the various sources consulted, which aims to identify characteristic features of Modern Architecture in the selected buildings.

The results obtained show several temporalities and characteristics, which appeared in the urban context, although in some cases the selection was limited to real estate where the availability of information was available, allowed us to obtain a considerable sample of elements which correspond to the time interval in the proposed study spectrum, these being the main tangible evidence where the main hypothesis of our research project can be demonstrated, the process of transfer - adaptation of Modern Architecture ideas and how the resulting typology was inserting into existing tissue and the way it relates to the national context.

Chart 1. Document for Modern Architecture's inventory according to gender.

		PROGRAMA IN IERINS II DCION	TUCIONAL DE DOCTORADO EN ARQUITECTURA PIDA	ECTURA PIDA			
		CEDULA PARA INVENTARIO DE A	ARQUITECTURA MODERNA SEGÚN SU GENERO	IN SU GENERO			HOJA 1
ž	GENERO	NOMBRE DEL INMUEBLE	PROYECTO ARQUITECTONICO Y / O	UBICACIÓN	DATACION	DATACION ESTADO ACTUAL	CLAVE
			I. SALUD				
-	salud	Hospital Civil de Manzanillo	Arq. Luis García Remus	Col. San Pedrito	1940	Bueno	HOSP01
2	salud	Servicios de seguridad social del IMSS " Padre Hidalgo"	Arq. Alejandro Prieto - Arq. José María Gutlérrez II. EDUCACION	Unidad habitacional Padre Hidalgo	1960	Bueno	HOSP02
-	Educación	Escuela Primaria Vicente Guerrero	Arg. Carlos Leduc	Calle Aldama N° 23	1943	Bueno	EDU01
2	Educación	Escuela primaria Benito Juarez	Arg. Carlos Leduc	Av. Juarez s/n	1935	Demolido	EDU02
1			III. TURISMO				
-	Turismo	Hotel playa de Santiago	Arq. García Ramos	Santiago N° 12	1944	Bueno	TUR01
2	Turismo	Hotel Colonial		Av. Mexico	1942	Bueno	TUR02
3	Turismo	Foreig Club (la casa del marino)	Cap, Rolando Cordera	Calle Juarez	1944	Bueno	TUR03
4	Turismo	Hotel Miramar	No existe una fuente fidedigna	Calle Juarez		Bueno	TUR04
		311 20	URBANIZACION HABITACIONAL				
-	Urbanizacion -	Fraccionamiento Playa azul ("Colonia las Brisas)	Urbanizadora de Manzanillo	Colonia las brisas	1945	Bueno	URHB01
2	Urbanizacion -	Fraccionamiento Peninsula de Santiago	Fraccionadora Peninsula de Santiago	Peninsula de Snatiago	1951	Bueno	URHB02
3	Urbanizacion - habitacional	Unidad habitacional Padre Hidalgo	Arq. Alejandro Prieto - Arq. José María Gutiérrez	Manzanillo Centro	1960	Bueno	URHB03
4	Urbanizacion - habitacional	Unidad habitacional INFONAVIT	INFONAVIT	Fracionamiento playa azul	1973	Bueno	URHB04
2	Urbanizacion - habitacional	Unidad habitacional Fovisste	FOVISSTE	Fracionamiento playa azul	1974	Bueno	URHBOS
			V. RELIGION				
-	Religion	Iglesia de Guadalupe	Desconocido	Manzanillo Centro	1940	Bueno	RG.01
11			VI. HABITACIONAL				
-	Habitacional	Edificio Sanchez	Ing. Jose Sanchez Diaz	Manzanillo Centro	1945	Bueno	HAB01
2	Habitacional	Edificio Machetto 1.	Arg. Fernando Parra	Manzanillo Centro	1949	Bueno	HAB02
3	Habitacional	Edificio Machetto 2.	Arg. Fernando Parra	Manzanillo Centro	1949	Bueno	HAB03
4	Habitacional	Edificio Campos	Desconocido	Manzanillo Centro	*1950	Bueno	HABO4
2	Habitacional	Edificio Chantilly	Arq. Fernando Parra	Manzanillo Centro	1950	Bueno	HAB05
7	Habitacional	Edificio Cordera	Cap. Rolando Cordera	Manzanillo Centro	1952	BUENO	HAB07
-	Edificios de Gobierno	Presidencia Municipal		Manzanillo Centro		Bueno	GOBO1
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Chart 2. Mapping's document of Manzanillo's Modern Architecture.





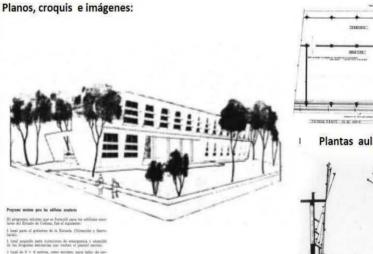
ARQUITECTURA MODERNA EN MANZANILLO, COLIMA. TRANSFERENCIA & ADAPTACION

ESCUELA PRIM. VICENTE GUERRERO

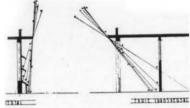


Resumen:

Debido a que el estado de Colima en la década de los 40, es considerados dentro de los programas nacionales de reconstrucción de escuelas por el recién creado CAPFCE, donde la memoria de planeación de escuelas en este caso para colima hace las siguientes recomendaciones, "dada las condiciones climatológicas del estado de Colima, los sistemas constructivos se han simplificado, hasta donde el clima y la constitución geòlica del lugar lo han permitido, ha sido nombrado el Arq. Carlos Leduc encargado de los proyectos del Estado







CEDULA DE IDENTIFICACIÓN

GENERO: AUTOR: AÑO: 1943 Educación Arq. Carlos Leduc ESTADO DE CONSERVACION : **USO ACTUAL:** Bueno (Modificado) Escuela Primaria

EDU 01

CLAVE



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ARQUITECTURA MODERNA EN MANZANILLO, COLIMA . TRANSFERENCIA & ADAPTACION

ESCUELA PRIM. VICENTE GUERRERO

Referencias de apoyo (bibliografía , artículos de periódicos , mapas y estadísticas) :



El programa mínimo que se formuló para los edificios escolares del Estado de Colima, fué el siguiente:

Programa minimo para los edificios escolares

- 1 local para el gobierno de la Escuela (Dirección y Secretaría).
- 1local pequeño para curaciones de emergencia y atención de las brigadas sanitarias que visitan el plantel escolar,
- 1 local de 9×6 metros, como mínimo, para taller de carpinteria.
- 1local de 9×6 metros, como minimo, para laboratorio experimental de Fisica-Quimica.

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USO ACTUAL: Escuela Primaria ESTADO DE CONSERVACION : Bueno (Modificado)

EDU 01

CLAVE

6. Preliminary conclusions

According to the scope proposed for this semester in the general schedule of the research project we can conclude that in the Modern Architecture of Manzanillo taking as a reference the analysis of the selected buildings shows an adaptive transformation of techniques, design processes and comfort that come from outside, some means were identified that facilitated the transfer of ideas such as, for example, the national or professional construction projects abroad, to a new environment to which they will have to be adapted to the particular conditions of the city context, this process was not sui generis, in the national context there was something similar as mentioned by Guillen (2009) "The debate between the internationalist architects who wanted to follow the purest modernism and the nationalists who craved modern architecture adapted to the Mexican realities and their surroundings";

In this case in particular the climatic conditions set the tone for the adaptation of the spatial schemes of the architectural projects developed, always seeking to satisfy the needs of interior comfort for the users. We find some architects who stand out in the national medium like Architect Carlos Leduc, who will be considered in the end as one of the most influential in Mexican Architecture, Architect Fernando Parra Hernández who will develop important projects that will have impact in the process of transition to the modernity of the country, the architect Alejandro Prieto who will be one of the promoters and builders of social security complexes of the Mexican Social Security Institute in the 50's and others who came from different latitudes to do or collaborate in projects of great relevance for the city.

It is important to point out the valuable contribution of local entrepreneurs as was the case of Mr. Octavio Maccheto of Italian origin who became one of the most important promoters of Modern Architecture in the city and in the region with the construction of buildings that arrived to be considered the most modern, two will be within the housing genre and one in the tourist, during the construction process will be used the most innovative techniques, materials and procedures of the time, and in some cases the materials will be brought from other regions with the objective that meet their quality standards, these buildings will be projected by foreign architects who arrive in Manzanillo to carry out previous studies of place to be able to propose space solutions according to their characteristic, giving as a result elements and typologies of regional character that are not excluded with the modern architectural language of I national context.

The Modern Architecture of Manzanillo is not an isolated case, it is a phenomenon that is going to present in any part of the world, the ideas the great masters like Mies, Le Corbusier, Gropius and those generated in the CIAM, were not compatible in all the in Latin America, in Mexico we have very different characteristics in each region, it was a process that was manifesting itself in a very constant way, where the builder, designer or promoter had to propose projects that satisfying the needs of the user, resulting in Ettinger (2013) "Other modernities".

7. Acknowledgments

To my thesis tutor, Dr. J. Jesús López García, for his unconditional support and for being an excellent guide in the process of my doctoral thesis, Dr., Julián Sobrino Simal, for all his councils and contributions to my project of research, especially for their friendship.

This article is dedicated:

In memory of my father. Marco Antonio Yáñez Cortes. To God, by His grace and love.

To my Mother for giving me life.

To my wife Ivonne with all my love, my help is suitable.

To my son Marquito, for being my light that lumina my way. To my sister

Olympia.

To Jorge and Ivan for all their support

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