

6th UNDERGRADUATE **SEMINAR ON BUILT ENVIRONMENT** AND TECHNOLOGY (USBET) 2023

> SUSTAINABLE BUILT **ENVIRONMENT**

25 - 27 SEPTEMBER 2023







6th UNDERGRADUATE SEMINAR ON BUILT ENVIRONMENT AND TECHNOLOGY (USBET) 2023

SUSTAINABLE BUILT ENVIRONMENT

Published by,

Department Of Built Environment Studies And Technology Faculty Of Architecture, Planning & Surveying Universiti Teknologi MARA Perak Branch, Seri Iskandar Campus usbet.fspuperak@gmail.com

Copyright @ 2023

Department Of Built Environment Studies And Technology Faculty Of Architecture, Planning & Surveying Universiti Teknologi MARA Perak Branch, Seri Iskandar Campus

This work is subject to copyright. All rights are reserved by the Publisher. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording or any information storage and retrieval system without permission in writing from the copyright owners.



02 October 2023 | Perak, Malaysia
Universiti Teknologi MARA, Perak Branch, Seri Iskandar Campus

EDITORIAL BOARD

Editors-in-Chief

SR. NORAZURA MIZAL AZZMI (BS) NADIRA AHZAHAR (BS)

Editors

TS. ZURAIHANA AHMAD ZAWAWI (BS)

SR. NAZHATULZALKIS JAMALUDIN (BS)

SR. SITI ZUBAIDAH HASHIM (BS)

NURHIDAYAH SAMSUL RIZAL (BS)

SR DR. NURUL FADZILA ZAHARI (BS)

NUR FADHILAH BAHARDIN (BS)

SR TS. DR. ALIA ABDULLAH SALLEH (BS)

SR TS. DR. SURIANI NGAH WAHAB (BS)

SR TS. DR. HASNAN HASHIM (BS)

SR NOORAZLINA KAMARUZZAMAN (BS)

SR MARIATY MOHD BAHARI (BS)

SR AIDA AFFINA ABDUL GHANI (BS)

DR. NOR DIANA AZIZ (BS)

SR AMIR FASHA MAT ISA (BS)

SR DR. NOR AMIN MOHD RADZUAN (BS)

PROF. MADYA SR DR. MOHD FADZIL YASSIN (BS)

SR TS. KHAIRUL AMRI RAMLY (BS)

SR. MOHD ASRUL HASIN (BS)

SR TS. MOHD KHAZLI ASWAD KHALID (BS)

SR MOHD DZULKARNAEN SUDIRMAN (BS)

SR DR. IRWAN MOHAMAD ALI (BS)

SR DR. MOHAMMAD HASZIRUL MOHD HASHIM (BS)

DR NURHASYIMAH BT AHMAD ZAMRI (BCT)

DR. PUTERI YULIANA SAMSUDIN (TP)

Editors-in-Chief

6th Undergraduate Seminar on Built Environment and Technology 2023

- E- Proceedings-

Organized by,

 $College\ of\ Built\ Environment\ (KAB)\ UiTM\ Perak\ Branch$



STYLE IN ARCHITECTURE: THE COMBINATION OF DIVERSE ELEMENTS IN CHEONG FATT TZE MANSION IN PENANG

Nur'Ain Athirah Amran¹, Izzat Anuar^{1*}

¹Department of Built Environment Studies and Technology, College of Built Environment, Universiti Teknologi MARA, Perak Branch, 32610, Seri Iskandar, Perak, Malaysia

2021107083@student.uitm.edu.my,*izzat731@uitm.edu.my

ABSTRACT

The Cheong Fatt Tze Mansion or so-called Blue Mansion is a prominent landmark in Penang and an example to embrace the beauty of the Straits eclectic style. However, the future architectural development in Penang does not share the same concern on maintaining and preserving the values because of their lack of understanding. The paper investigates the elements, characteristics of the architectural style and the architectural layout of a mansion in George Town, Penang, as well as the architectural style of the mansion. The structure of Cheong Fatt Tze Mansion combines Chinese architectural and cultural ideas with local Malay ethnicity and European colonial influences. This research is produced by using systematic data which is primary data and secondary data. The primary data will be collected through a site visit, recording the data from personal interviews with the expert and owner of the mansion. The secondary data will be gathered using diverse online sources, such as official publications, non-governmental organization (NGO) websites, and archived news. The findings of this research point toward a better understanding of the Straits Eclectic style and the elements in the Cheong Fatt Tze itself. Lastly, this gem needs to be preserved in other to portray the Late Straits Eclectic style for future reference.

Keywords: Straits Eclectic, Architecture Style, Penang, Cheong Fatt Tze.

© 2023 USBET, JABT, UiTM Perak Branch, All rights reserved

INTRODUCTION

Among other heritage buildings, this mansion took the attention on preservation and to be taken care of because of its captivating historical and architectural values which was certified by UNESCO as one of the most unique heritage buildings and was awarded with an Award for Culture Heritage Conservation. (Nas.C, 2003). When heritage buildings have been demolished or are no longer properly maintained, future generations will be unable to see them, let alone learn about their history. The problems are conservation and preservation dilemmas that happened due to the lack of knowledge and reference in preservation also affected the goal to preserve and retained the architectural values. Lack of skills and materials also could be one of the obstacles to preserving heritage buildings, especially the Cheong Fatt Tze mansion as the origin and the diverse elements used. Most of the heritage buildings built back then were using not only local labor but mostly the workers and craftsmen were imported from other countries such as China. So preserving and retaining the architecture and its construction would cost large amounts. Hence it is necessary to create awareness of the heritage buildings conservation issues. To preserve and retain the architecture it would cost large amounts. Therefore, the aim and objectives of this research paper are to examine the architectural characteristics and elements of the eclectic style of Cheong Fatt Tze Mansion, Penang.

- To identify the meaning and the mixed elements in straits eclectic architectural style.
- Identify, as far as possible, the characteristics of the mansion such as architectural style, exterior and interior features.
- To study and outline the application of Straits eclectic style in the building for future development in Penang.

LITERATURE REVIEW

Background & History of Cheong Fatt Tze Mansion

The Blue Mansion or Cheong Fatt Tze is located at 14 Leith Street, 10200 George Town, Penang, Malaysia George Town, Penang or well known as World Heritage Site (WHS) by UNESCO on 27 July 2008 (Shida Ir, 2013). George Town was given this classification because of the town's distinct and unique architectural styles and cultural landscapes. This distinguishes them from other sites in the world and makes them extremely astounding (Nas. C, 2003). The mansion was originally built by a man named Cheong Fatt Tze. Cheong Fatt Tze is a Hakka from a district named Teochew, he migrated to different countries from a water carrier in Java Indonesia to an influential businessman in South East Asia (Adrian Cheah, 2022). Early in the 1890s,

because the Dutch East Indies outlawed any diplomatic representation, he relocated his base to Penang where he started to design and build the magnificent mansion (Khoo. S. N., 1993). The Blue Mansion (Figure 1) consists of 38 rooms but only 18 rooms were available for occupancy, a hall, a lounge bar, an Indigo restaurant that once was a family living room, a Chi point called a courtyard and 4 other courtyards on both wings of the mansion. The Blue Mansion was conserved and retained in the most recommended conservation fashion which is called Reversible Intervention so that it can be removed or added or returned to its original state and vice versa.



Figure 1: The Blue Mansion (Source: VFM Leonardo, 2022)

Architectural Style & Concept

The architectural style of Cheong Fatt Tze is the Straits Eclectic style. A single work combines a few elements from several works. There are diverse elements in the Straits Eclectic style in the mansion such as Chinese elements, European elements and local architectural elements. The Chinese elements in the mansion are influenced by the Peranakan culture born from the history of the Baba- Nyonya community (Azizi Bahauddin & Teh Boon Soon). The Chinese elements that can be seen in the mansion and some other heritage buildings are from the form or the layout of the buildings. For example, the courtyard placement in the Blue Mansion and other buildings in George Town. The external and interior facades included many Chinese architectural features and details (Liu & Awotona, 1996). The Europeans introduced Western features into the Straits Eclectic style, such as windows and ornate plasterwork, as well as Kaki–Lima (Five-Foot). The arts and skills that could be seen throughout George Town were shown using wood, stone, tiles, and plaster (Fels, 1994). Other than the English Art Noveau stained glass, other Western elements that can be seen in the mansion are the exit gate and the central courtyard balcony.

METHODOLOGY

This research is produced using systematic data collection which is the primary and the secondary data such as visual data collection, research design which is a case study and interviews to help learn more about the elements and characteristics of the mansion. In addition, interviews with the mansion's owner, Mr. Laurence Loh, were undertaken to improve the visual data collected. This has assisted in the collecting of the majority of important information on eclectic-style architecture.

Research Techniques: Primary Data Collection

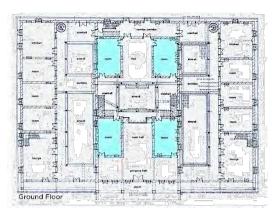
An observation and a semi-structured interview have been made by performing a site visit to obtain information about the Blue Mansion and to identify the many types of Eclectic styles that are located in the area of Georgetown. All of the data gathered on-site is collected and recorded. The difference between every Straits Eclectic style in terms of their structures (physical appearance), European & Indian influence and Chinese influence are all observed and documented. An interview with the mansion's owner, Mr. Laurence Loh, has been set to collect data regarding the history, background, the detail of the elements in the architectural style of the mansion. However, due to some personal reasons from the owner of the mansion itself, the interview has been done via online (Google Meet) and the owner also provided the prerecorded interview to help with data collection. Although there are limitations, site visits have been conducted to facilitate the process of data collection with the help of the Cheong Fatt Tze mansion.

Research Techniques: Secondary Data Collection

For the secondary data, the information was collected using the literature review and case study. The data were collected from readings, magazines, books, journals, articles and websites, etc. This method will explain more about the origin of the Straits Eclectic Style and the mansion, the architectural values and the detail of the elements.

DATA ANALYSIS AND FINDINGS

The finding highlights the various types of Straits eclectic style throughout the year from the 1700s to the late 1900s. and the analysis detail of elements and characteristics of the Straits eclectic style in the Cheong Fatt Tze Mansion itself. The layout of this mansion is inspired by Chinese architecture brought by the Chinese craftsmen and there are only two buildings with the same layout used outside China, Cheong Fatt Tze Mansion and the other building in Jakarta, Indonesia. Other than the layout, the physical appearance of the Late Straits Eclectic style in the mansion



is 2-3 storeys. The type of Straits Eclectic style data is collected and tabulated in Table 1, consisting of the year, the name of Straits Eclectic style, physical appearance, the traditional building material and the elements from the European or Chinese influence. This finding is one of the factors that need to be considered before preserving and retaining any historical building that have the same architectural style,

Straits Eclectic Style. Other than that, the Blue Mansion's architectural detail consists of roof, timberwork, ironwork, decorative elements, floor, windows and their finishing has been observed and simplified in Table 2.

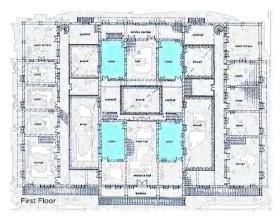


Figure 2: The Blue Mansion Floorplan (Source: VFM Leonardo, 2022)

Table 1: Types of Straits Eclectic Style

Year	Name of Straits Eclectic Style	Physical appearance	Traditional Building Materials	European & Indian influence	Chinese influence
1790s	Early Penang	1-2 storeys (Low)	Timber, clay, bricks, granite, Terracotta roof and floor tiles, lime plaster paint	-	1
1840s	Southern Chinese Style	2-3 storeys		Timber louvered windows & U/V shaped terracotta roof tiles	Air vents, carved
1890s	"Early Straits" Style		Encaustic clay floor tiles	Full length shuttered windows and geometric patterned coloured clay floor tiles	timber door, air well and gable etc.
1910s	"Late Straits" Style		Glass fanlights cement floor tiles, and ceramic wall tiles	Full length shuttered windows and clay floor tiles, projecting roof, plaster relief	Carved timber door, air vent, gable and air well etc.
1930s	Art Deco Style		Terracotta roof tiles, reinforced concrete, metal and glass	geometric design and metal framed glass windows	Plaster wall finishing
1950s	Early Modern Style			Simplify form and design based on the availability of materials	

Table 2: The Blue Mansion's Architectural style detail

	Physical Appearance	Architectural Elements	Description	Traditional Materials
	2-3 storeys	Roof	-	Terracotta roof tiles
		Ironwork: Balustr ades Column S Spiral Stairs	-	Victorian Scottish cast iron
		Decorative Elements	Decorative paintings on gables of the building, beams border at the main courtyard and internal walls Ceramic cut and paste with elaborate patterns of men, women, animals and sceneries depicting Chinese.	Porcelain/ Ceramic bowls
The Late Straits Eclectic Style (Late 19 th)		Timberworks	Timber filigree carvings, timber louvered window and panelled doors also the eye deceiving beams	Blackwood timber
		Floor	Using the coloured tiles imported from England	Stoke-On-Trent tiles
		Windows	Using the Art Nouveau- stained glass window	Stained glass panels
		Plaster & Paint	Without causing structural wall damage, absorbed moisture, cooled and released moisture.	Lime plaster and Lime wash paint

CONCLUSION

The research finding has brought the author to a significant understanding of the elements and characteristics of the Straits eclectic style especially concerning the Cheong Fatt Tze Mansion. This research will help more of understanding factors such as the ornamentations, the material, etc. to be looked on to help on preservations of the mansions and other heritage buildings with the same concerns. As a result of this research on The Blue Mansion's Late Straits Eclectic style building, the layout of the mansion was brought by the Chinese craftsmen that came from the southern China province. The Straits Eclectic style of the building in Georgetown is a representation. when there encounter between the Chinese, Malays, and British colonies (various origins) in terms of architecture, hence resulting in mixed elements in the style. The layout was symmetrical and well divided on each side of the mansion with a Chi point in the center and 2 courtyards placed on both sides. The built heritage in Penang's George Town Heritage City has unique qualities and significance in terms of architecture that are related to history, aesthetics, building techniques, design, material, and culture. Based on the above conclusions, the issues can be summarized, and some recommendations can be made to ensure the objective of this research to succeed. The Blue Mansion had been through a long process of conservation to preserve the heritage building. It is necessary to generate tourism that enhances than threatens the local heritage. Therefore, any other heritage building and most importantly The Blue Mansion needs to be taken care of and repaired periodically so that in the future people can still enjoy the architectural knowledge found in the local heritage building, especially the Blue Mansion. The uniqueness and beauty of the architecture make it important to maintain the building.

ACKNOWLEDGMENT

First, I would like to thank my faculty for incorporating this important course, Topical Study, into my architectural education, as it has provided me with the opportunity to learn how to prepare, develop, and write an appropriate dissertation paper. Next, I would like to express my gratitude to my supervisor, En Izzat bin Anuar, for patiently guiding me through the fundamentals of dissertation writing. Helping and guiding me to write a proper dissertation paper by perpetually providing constructive feedback and instructions via Microsoft Teams and messaging applications. Finally, I would like to thank my parents and friends for their unending support and helpful counsel throughout the duration of writing this research paper.

REFERENCES

- Morollo, M. K. (2022). *Things You Should Know About Penang's Blue Mansion*. https://theculturetrip.com/asia/indonesia/articles/9-things-you-should-know-about-penangs-blue-mansion.
- Nast, C. (2003). Cheong Fatt Tze Mansion Architectural Digest. https://www.architecturaldigest.com/story/hotels-cheong-article-082003
- Orientalarchitecture.com. (2005). Cheong Fatt Tze Mansion, Georgetown, Penang, Malaysia. Asian Architecture: https://www.orientalarchitecture.com/sid/469/malaysia/georgetown/cheong-fatt-tze-mansion.
- Arkitek LLA. (n.d.). Cheong Fatt Tze Mansion. Arkitek LLA. Retrieved on April 21, 2022. https://lla.com.my/projects/cheong-fatt-tze-mansion/
- Windeler, J. (n.d.). China Blue an insight into Cheong Fatt Tze Mansion. Retrieved on 26 June 2022, from Adriancheah.https://www.adriancheah.com/index.php?option=com_content&view=article&id=43:chine-blue-cheong-fatt-tze mansion&catid=33&Itemid=115
- World Heritage Incorporated, G. T. (2020, June 11). Shop houses George Town World Heritage Incorporated. Morld Heritage Incorporated. https://gtwhi.com.my/our-work/shop houses/
- Tan, YW. (2015). *Penang Shophouses, A Handbook of Features and Materials*. Tan Yeow Wooi Culture and Heritage Research Studio, Penang, Malaysia.
- Zwain, A., and Bahauddin, A. (2016). The conservation of architectural values in the shophouses, George Town, Penang, Malaysia Case Study: Sun Yat Sen Museum. *Getty Publications*.
- Omar, Shida Irwana & Muhibudin, Masitah & Yussof, Izatul & Sukiman, Mohd & Mohamed, Badaruddin. (2013). George Town, Penang as a World Heritage Site: The Stakeholders' *Perceptions. Procedia Social and Behavioral Sciences.* 91. 88-96. 10.1016/j.sbspro.2013.08.405.
- Rasha, Sayed. (2017). Promoting local community integration in world heritage site planning. MIT-UTM Malaysia Sustainable Cities Program Massachusetts Institute of Technology.
- Khoo, S.N. (1993). Streets of Georgetown Penang. *Janus Prints & Resources, Penang.*
- Zwain, A. and Bahauddin, A. (2021), "Malacca's "Straits Chinese traditional courtyard eclectic style shophouses": facades' architectural design elements through place identity", Journal of Cultural Heritage Management and Sustainable

Development, Vol. ahead-of-print No. ahead-of-print. https://doi.org/10.1108/JCHMSD-02-2021-0014

Universiti Teknologi MARA Cawangan Perak Kampus Seri Iskandar 32610 Bandar Baru Seri Iskandar, Perak Darul Ridzuan, MALAYSIA Tel: (+605) 374 2093/2453 Faks: (+605) 374 2299



Prof. Madya Dr. Nur Hisham Ibrahim Rektor Universiti Teknologi MARA Cawangan Perak

Surat kami: 700-KPK (PRP.UP.1/20/1) Tarikh 20 Januari 2023 Universiti Teknologi MARA Pera Tindakan

Tuan.

PERMOHONAN KELULUSAN MEMUAT NAIK PENERBITAN UITM CAWANGAN PERAK MELALUI REPOSITORI INSTITUSI UITM (IR)

Perkara di atas adalah dirujuk.

- Adalah dimaklumkan bahawa pihak kami ingin memohon kelulusan tuan untuk mengimbas (digitize) dan memuat naik semua jenis penerbitan di bawah UiTM Cawangan Perak melalui Repositori Institusi UiTM, PTAR.
- 3. Tujuan permohonan ini adalah bagi membolehkan akses yang lebih meluas oleh pengguna perpustakaan terhadap semua maklumat yang terkandung di dalam penerbitan melalui laman Web PTAR UiTM Cawangan Perak.

Kelulusan daripada pihak tuan dalam perkara ini amat dihargai.

Sekian, terima kasih.

"BERKHIDMAT UNTUK NEGARA"

Saya yang menjalankan amanah,

SITI BASRIYAH SHAIK BAHARUDIN Timbalan Ketua Pustakawan

PROF. MADYA DR. NUR HISHAM IBRAHIM REKTOR UNIVERSITI TEKNOLOGI MARA CAWANGAN PERAK KAMPUS SERI ISKANDAR

nar