

IAW. 2019



INTERNATIONAL ARCHITECTURE WORKSHOP
ADAPTIVE AND RESPONSIVE ARCHITECTURE

SOUTH KOREA, 20 - 30 AUGUST 2019



PENERBIT GUNADARMA

PROCEEDING

I A W **• 2019**

INTERNATIONAL ARCHITECTURE WORKSHOP 2019
ULSAN - ADAPTIVE ENVIRONMENT AND
RESPONSIVE ARCHITECTURE
SOUTH KOREA, 20 - 30 AUGUST 2019



INTERNATIONAL ARCHITECTURE WORKSHOP 2019
ULSAN - ADAPTIVE ENVIRONMENT AND RESPONSIVE
ARCHITECTURE

Gunadarma University - University of Ulsan - Catholic
Parahyangan University

School of Architecture, Ulsan University, Ulsan, South Korea
20-30 August 2019

ISBN:.....

Advisory Board Bpk. Drs. Agus Sumin, MM.
Ibu Dewi Syamsiar, SE., MM.

Book Editor Editor In Chief:
Ar. Yonav Partana, Msc., GP., IAI.

Deputy Editor In Chief:
Ar. Adjie Negara, MAUD, GP., IAI.
Pelangi Tri Puteri, M.Ars.

Layout Design
Adrian Rahman, Joshua Nugraha Mulia, Mohamad Fazly Noor
Islamy, Nada Syifa Adilah, Novita Eka Lestari, Patricia Sekar Ayu
Trijayanti, Rana Sakha Salahuddin Putri, Rio Aditama, Risti Ayu
Emilia Zahra, Tite Ayu Nawasari

Committee Dr. Ir. Raziq Hasan, MT.Ars.
Ar. Yonav Partana, Msc., GP., IAI.
Ar. Adjie Negara, MAUD, GP., IAI.
Nindiya Kirana
Deiby Silfana Lessar
Rina Yanuarti Batubara
Pelangi Tri Puteri, M.Ars.
Ferizka Padmashinta, ST.
Fikri Husni Rachman, ST.
Luthfi Hawari, ST.
Badan Pengelola Lingkungan Kampus (BPLK)
Himpunan Mahasiswa Arsitektur Gunadarma

Speaker & Reviewer Ar. Gregorius Supie Yolodi, IAI.

Diterbitkan pertama kali oleh Penerbit Gunadarma
Jl. Margonda Raya No. 100, Pondok Cina, Depok 16424
Telp. +62-21-78881112, 7863819 Faks. +62-21-7872829
e-mail: penerbit@gunadarma.ac.id

Cetakan Pertama, Oktober 2025

Hak cipta dilindungi undang-undang.
Dilarang memperbanyak karya tulis ini dalam bentuk
dan cara apapun tanpa ijin tertulis dari penerbit.

Copyright © 2025

Architecture Department of Gunadarma University
All contents remains the property of authors, editors and
institutes.

Penerbit Gunadarma

PREFACE

International Architecture Workshop has grown not only as an annual architecture program, but also a cross cultural occasion between all the participant. It's the fourth year of Internatioal Architecture Workshop which was attend by three University, Gunadarma University, University of Ulsan and Universitas Katolik Parahyangan. This year workshop was held by the University of Ulsan. We are really excited to take part on this workshop since the theme and issue are new in this collaboration. The theme for International Architecture Workshop 2019 is "ADAPTIVE ENVIRONMENT AND RESPONSIVE ARCHITECTURE". This year's workshop fundamentally asks students to reconsider what is so self-evident that the contemporary architectural discipline can easily neglect; an architecture as making an environmentally responding shelter. The argument is focused on "how we actualize ourselves in nature and climate?" which is paraphrased from the words of Japanese philosopher Watsuji Tetsuro: that is, how we understand, locate, and express our existence in response to environmental conditions through building. As a host of International Architecture Workshop, Univerity of Ulsan hope to inspire all participant student and faculty member to bring their intellectual, creative, and eeperimental spirit by this year workshop. The preparation from University of Gunadarma was start in May 2019 and took 4 months to finish this workshop. There are 10 students from Gunadarma University who had been selected through an assessment process which includes portofolio presentation and interview. The student from 3 univerisities were divided into groups with a mix between Indonesia and Korea student, And they collaborate with all the team members easily. Furthermore we also follow the last year agenda after the workshop which is an Architecture Festival called GAF. The architecture festival GAF consist not only International Architecture Workshop, but also desimination of the workshop and Architecture Exhibition from all the results of International Architecture Workshop 2016-2019 and student portofolio. Last but not leat, I would like to thank all thecommittee who were involved, also thank you for all the workshop participants for the spirit and hard working attitudes. We have been seeing many young designate architecture in this workshop.

Yonav Partana, ST., Msc., IAI.

Chairman of the International Architecture Workshop Committee
Gunadarma University

PREFACE

It is with great pleasure that we introduce the 4th issue of the International Architecture Workshop, “Adaptive Environment and Responsive Architecture”. This year’s event, the IAW 2019 is distinguished among other recent workshops in both its theme and its teaching structure. Evolved from prior workshop experiences, the 2019 workshop shifted its theme into another critical issue in contemporary architecture, the environmental sensibility.

The pedagogical goals of the workshop are basic and purposely grounded in fundamental notions of architecture with regard to local environmental conditions. The students are asked to examine lifestyle, landscape, topography, structures, materials, and natural ethos of given site, Daewangam Park, Ulsan in order to design a guest house that could redefine the industrial response to the world’s environmental crisis through a critical study of natural processes and indigenous practices, as well as the use of emerging technologies.

The workshop also emphasized on more collaborative teaching endeavors among tutors of participating institutions, forming tripartite tutorial layers of Gunadarma University, Parahyangan Catholic University, and the University of Ulsan. This tutorial structure and teamwork was as superb as the students’ teamwork in this particular workshop. As an educator, it has been an inspiring and privileged experience to be a part of this excellent teaching team.

On behalf of the entire architecture faculty from the University of Ulsan, I firstly wish to thank all of those students who participated and worked tirelessly on the IAW 2019. I congratulate them on their success, and thank them for their passion and enthusiasm. And I would like to express my deep gratitude to Mr. Yonav Partana and editorial staff of Gunadarma Publisher for their visionary guidance and valuable efforts making this book. Without their commitment and continuous support, this beautiful publication could not have been realized.

Finally, I sincerely offer my heartfelt appreciation to all tutors who provided students with encouragement and inspiration during the workshop to carry out this wonderful undertaking. I am honored that I have had an opportunity to work with them. Thank you all for teaching and guiding the students to become exemplary future architects.

Yonghyun Yu, AIA, LEED AP

Associate Professor of Architecture, University of Ulsan
2019 International Architecture Workshop Director

PREFACE

To the honorable Mrs. Rector from the Gunadarma University and the Vice Chancellors, the honorable Mr. Dean and vice deans, also the speakers Professor Yu from the University of Ulsan, Pak Yuswadi, Mr. Ahmad Juhara and Mr. Yandi and last but not least to the students from all college and student from Ulsan University. Best wishes to all of us. The first thing that I want to convey is our gratitude from Universitas Katolik Parahyangan to Gunadarma University for inviting us to Cooperate. As we already said in Unpar, we hope this collaboration can continue, both between the students and between the lecturers. If it is possible to have recent collaboration between Unpar and Gunadarma lectures, especially in architecture study program, we will be very happy. And hopefully for friends, lecturers and students from parahyangan, this workshop can really give benefit. And we are sure, I am sure it will give benefit because the theme of “ Adaptive Environment and Responsive Architecture” is in accordance with Unpar vision, to develop local potential in the urban level. And once again I said thank you especially to the Gunadarma University and Ulsan University for inviting Unpar to participate in this workshop. Thank you.

Penerbit Gunadarma

Dr. Y. Basuki Dwisusanto

Dean of Faculty Engineering
Universitas Katolik Parahyangan

Penerbit Gunadarma

Table of Content

iv | Preface

x | Table of Content

xii | Overview

Workshop Project

1 | **Workshop Outline**
Brief History
Ulsan - General Introduction
Design Object - Daewangam Park

6 | **Special Lecture**
Ar. Gregorius Supie Yolodi, IAI.

8 | **Site Location**

9 | **Site Project**

10 | **Site Existing**

12 | **Sanctuary Beneath**

24 | **Connect - Disconnect**

34 | **Spatial Emotion**

46 | **Blend**

56 | **Harmony with Nature**

Photo Gallery

69 | **The Events**
Objective
The Workshop

74 | **Activity Timeline**

98 | **Participants**
Professors
Staff
Students

103 | **Literature References**

104 | **Special Thanks To**

Penerbit Gunadarma

OVERVIEW

International Architecture Workshop 2019 ***Adaptive and Responsive Architecture***

The International Architecture Workshop (IAW), established in 2016 by the University of Ulsan and Gunadarma University, later joined by Parahyangan Catholic University, has evolved into an important platform for academic and cultural exchange between Korea and Indonesia. Hosted by the University of Ulsan in 2019, the workshop carries the theme Adaptive Environment & Responsive Architecture with the goal of expanding students' design thinking through collaboration and experimental practice.

This year's program urges participants to revisit a core but often overlooked idea: architecture as an environmentally responsive shelter. Inspired by philosopher Watsuji Tetsuro's view on how humans actualize themselves in nature and climate, students are challenged to explore architecture as an expression shaped by environmental conditions.

With Daewangam Park as the study site, the workshop focuses on designing 10–20 guest-house units, community areas, and gardens. It emphasizes natural light, ventilation, materials, and spatial strategies while integrating indigenous wisdom with contemporary technologies. IAW 2019 seeks to inspire creativity, sustainability, and international collaboration.

Keywords: Architecture, Adaptive, Responsive, Nature, Climate, Materials, Guest-house, Community Area, Natural Lights, Spatial Strategies.