Theme: Resilience and Diversity: Rethinking Asian Architecture for the Next Generation

September 20–23, 2016
Tohoku University, Sendai, Miyagi, Japan

Architectural Institute of Japan [Host], Architectural Institute of Korea, Architectural Society of China, Tohoku University School of Engineering
Introduction

The International Symposium on Architectural Interchanges in Asia (ISAIA) is a biennial International Symposium co-sponsored by the Architectural Institute of Japan (AIJ) together with the Architectural Society of China and the Architectural Institute of Korea (AIK). The 11th ISAIA is scheduled to be held on September 20-23, 2016 in Sendai, and hosted by AIJ. The organizing committee of ISAIA welcomes professors, architects, building engineers, researchers and students to take part in the symposium.

'The International Symposium on Architectural Interchanges in Asia' was established to promote communication with people in the rest of Asia and cooperate for the development of 21st Asian architecture and culture in 1986. And the history of it follows as;

<table>
<thead>
<tr>
<th>ISAIA</th>
<th>September 6-12, 1986, Fukuoka, Kyoto and Tokyo, Japan</th>
</tr>
</thead>
<tbody>
<tr>
<td>2nd ISAIA</td>
<td>&quot;Asian Architecture in the 21st Century&quot; September 8-10, 1998, Kobe, Japan</td>
</tr>
<tr>
<td>3rd ISAIA</td>
<td>&quot;Challenges and Roles of Asian Architecture for the New Millennium&quot; February 23-25, 2000, Jeju, Korea</td>
</tr>
<tr>
<td>4th ISAIA</td>
<td>&quot;Resource Architecture and Modern Technology&quot; September 17-19, 2002, Chongjin, China</td>
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<td>5th ISAIA</td>
<td>&quot;Global Environment and Diversity of Asian Architecture&quot; June 1-4, 2004, Matsue, Japan</td>
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<tr>
<td>7th ISAIA</td>
<td>&quot;Urban Renewal and Architecture Creation &quot; October 15-17, 2008, Beijing, China</td>
</tr>
<tr>
<td>8th ISAIA</td>
<td>&quot;Asian View : Order and Wisdom for the Future&quot; November 9-12, 2010, Kitakyushu, Japan</td>
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<td>9th ISAIA</td>
<td>&quot;Technological Advancements in Architecture&quot; October 22-25, 2012, Gwang-Ju, Korea</td>
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<tr>
<td>10th ISAIA</td>
<td>&quot;Cultural Elements in Architectural Advancement &quot; October 14-17, 2014, Hangzhou, China</td>
</tr>
<tr>
<td>11th ISAIA</td>
<td>&quot;Resilience and Diversity: Rethinking Asian Architecture for the Next Generation &quot; September 20-23, 2016, Sendai, Japan</td>
</tr>
</tbody>
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*The 1st ISAIA was held in conjunction with AIJ 100th Anniversary.

The theme of the 11th ISAIA is " Resilience and Diversity : Rethinking Asian Architecture for the Next Generation ".

The 11th ISAIA conference will be held in Sendai, Tohoku which was stricken by the Tohoku Earthquake and Tsunami five years ago. It faces various realities and many problems which were to be reconsidered. They include some of the fundamental problems, such as “How should human beings face the Nature?” and “What is the Modernism?” and we try to redefine the problem of the sustainable society based on such reflections. Therefore, “Resilience” and “Diversity” were chosen as the keywords for the conference. “Resilience” not only means “physically unbreakable” but also is the keyword to aim for the society which can manage various crises as well as flexibly respond to the changes, conflicts and destructions. Also, “Diversity” is the keyword to develop the culture to live symbiotically and cooperate with each other through mutual learning, based on the understanding of the diversity in Asian cultures. How could the “architecture” be redefined from these words?

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Welcome Messages

Masayoshi Nakashima
President of AIJ
Chairman of Organizing Committee

On April 9 this year, the Architectural Institute of Japan (AIJ) celebrated its 130th anniversary. I am delighted that we are able to host this International Symposium on Architectural Exchange in Asia during such a memorable year in Japan. The symposium was established in 1986 to commemorate the centennial of AIJ’s founding, and this year’s symposium is the eleventh congress. With the joint hosting of AIJ, the Architectural Institute of Korea (AIK) and the Architectural Society of China (ASC), the symposia aim to stimulate the field of architecture through international exchange among researchers, architects and technicians active in Asia. The symposia also offer a splendid opportunity to assemble the presidents and directors of our three institutions so that they can meet and deepen mutual understanding.

This year’s symposium welcomes all its participants to the Tohoku city of Sendai, five-and-a-half years on from the Great East Japan Earthquake of 2011. Sendai has encountered many challenging realities in the wake of the massive earthquake, and there are still many issues standing before us. These issues include fundamental questions such as how humans should confront nature, and what the word “contemporary” really means. The earthquake and the lessons we learned from it have prompted us to reexamine the state of the sustainable society. On the other hand, if we look at our society from a global perspective, we find that the human race is engaged in solving the ultimate issue of securing sustainable development against a background of exploding populations, burgeoning economies and the inherent environmental costs of development. Considering the future of the sustainable society, the role that ought to be played by our own field of architecture – aptly responding to social demands concerning people and their lifestyles – is indeed tremendous.

In view of these circumstances, we have decided to make “resilience” and “diversity” the two main keywords of this year’s symposium. I believe that the keyword of “resilience” does not simply end with the usual interpretation of the word as “preventing and halting physical destruction,” but extends to managing all sorts of crises and creating a society that can respond flexibly to changes with regard to the amazing power of nature that, albeit infrequently, envelops us on a scale beyond our expectations. Moreover, having recognized the innate diversity of people and their lifestyles, the composition of societies and cultural differences, I also contend that living and cooperating with each other through mutual learning truly advances architectural thinking; thus, we have selected the keyword of “diversity” with the wish to discuss all of these issues from an Asian perspective with everyone at the symposium. I hope that you will all appreciate this major point and that the symposium fosters a constructive debate with lasting future impact.

Finally, I would like to thank the Architectural Institute of Korea and Architectural Society of China for their cooperation in preparing the symposium and all of the participants for their enormous efforts. I sincerely hope that the symposium will prove to be a significant event for all attendees and provide a pleasant forum for interaction and exchange.
Welcome Messages

Ha, Gee-Joo
President of AIK

Dear Professor Masayoshi Nakashima, the President of Architectural Institute of Japan, Professor Xiu Long, the President of Architectural Society of China, members of the AIJ, ASC, AIK, and distinguished participants and guests,

I am indeed honored to make an opening congratulatory speech for the 11th ISAIA here today and, on behalf of the AIK members, I would like to extend a whole hearted welcome to all of the participants.

After the occasion of the first meeting of ISAIA in Fukuoka, Kyoto, Tokyo, Japan in 1986, three countries agreed that the second formal symposiums on architecture be held within three institutions’ Asian framework and interchanges in 1998. Since then the ISAIA has indeed played a valuable role in promoting mutual understanding and collaboration among Asian Countries.

I am very delighted that such a meaningful symposium is being held in Sendai, Japan because this year’s event marks 30 year anniversary since the first ISAIA in Year 1986. And I would like to express my deep appreciation to those who devoted their efforts and time for the ISAIA.

The theme of this symposium is Resilience and Diversity: Rethinking Architecture for the Next Generation and five academic sessions range from architecture and urban design, history to sustainable environment, Building technology, and structures. As a matter of fact, we are currently facing a great challenge of globalization in the transitional period to the digital era. The situation we are now facing is calling for our common understanding and sharing each country’s identification differences among our member countries, more than ever.

In this point,
I would like to make some suggestions on the way to make forward for Asian architecture faced with architecture recession and building environments witnessed around the world today. I firmly believe that architecture is the physical manifestation of the local area’s history, culture as well as a window through which the area’s future can be seen. To maintain Asian architecture in this global world society, ISAIA can be a pivotal role to share and understand common knowledge and situations among Asian countries.

Thus, I would like to suggest that next ISAIA will be an Architecture festival for the Asian through extending current research topics to more diverse areas. To do that, more people need to be participated and involved for ISAIA. I finally suggest that we can discuss more in detail for the future and reactivation of ISAIA at our executive meeting here in Sendai.

I would like to bring my remarks to a close by expressing once again my sincere wish that this symposium will serve as a valuable opportunity to forge strong and active interchanges within the Asian knowledge and intelligence. And I would like to wish you a most pleasant and memorable time during your stay here in the beautiful city, Sendai.

Thank you very much.
Welcome Messages

Xiu Long
President of ASC

Your respected AIJ President Masayoshi Nakashima, Your respected AIK President Ha Gee-Joo, Dear delegates and guests,

Good morning. I am very pleased to be here in this beautiful city of Sendai for attending the 11th International Symposium of Architectural Interchanges in Asia. This is my first travel abroad for an international exchange after my election as the ASC President in last August. I am honored and grateful for Mr. Masayoshi Nakashima, the AIJ President’s warm invitation and cordial arrangements.

For a long time, China, Korea and Japan kept a good interaction and exchange with each other. On the architectural aspect, three countries have a similar geographical environment and climate conditions, as well as relevant cultural tradition and heritages. Thus AIJ, AIK and ASC kept a long term, friendly and fruitful cooperation and exchange with each other. At present, the building industry in China rests on its best development period in the history. We have made a lot of progress and accumulated plentiful experience on super-high-rise building, energy-saving-building, long-span bridge and tunnel, complex-structure facilities. We would like to have exchange with colleagues from Japan, Korea and other countries and regions. We also welcome you to have visit in China and will provide necessary help to it.

The main theme of 11th ISAIA is “Resilience and Diversity: Rethinking Asian Architecture for the Next Generation”. In the communication with AIJ and AIK, we have discussed many times on how to educate the architectural scholars of next generation and to strengthen their communication and exchange. I think this main theme reflected the attention from all parties to the young scholars since the future development will be decided by themselves. Furthermore, as an echo to AIJ’s suggestion to establish a young committee, we invited four young professors from Tsinghua University and other schools to participate in this event, in order to promote the exchange between young people.

To conclude my words, I would like to thank AIJ and other organizations in Japan for your efforts to a wonderful symposium. I wish this meeting could be successful and wish you all a healthy and pleasant time here and a fruitful exchange result.

Thank you.
Welcome Messages

Welcome to ISAIA2016 held at the city of Sendai.

Sendai is known as the city of forest. We hope you enjoy the landscape of fertile green surrounding the venue of the symposium, Tohoku University in the Aobayama district.

We, the steering committee of ISAIA 2016 recognize that ISAIA is an unique international symposium co-hosted by the architectural institute of three countries, and that ISAIA has been successfully co-organized by ASC, AIK and AIJ for twenty years during which ten symposia have been held in China, in Korea and in Japan; due to which ISAIA may be considered as a place of exchange of ideas among not only the professionals, but the academicians and students of every discipline of architecture.

We find the strong potential of ISAIA as an engine of architectural communications in Asia, and intend to develop it by the following three propositions: at first to invite the architectural institute of other Asian countries, secondly to encourage the mutual communication among the young generation through drafting the communal statement of Sendai Declaration, and last but not least, to improve the quality of abstracts and papers by the various approaches such as peer review and session award. We sent delegates to ASC and AIK in February this year to explain the background of our propositions, and to win the understanding from both institutes. Regarding the main theme of ISAIA2016, “Resilience and Diversity,” please refer to the welcome message by Professor Masayoshi Nakajima, President of AIJ. For us, the main theme is as important as its sub-title, “Rethinking Asian Architecture for the Next Generation.” Please enjoy your stay with us in Sendai.
## 11th ISAIA Program

<table>
<thead>
<tr>
<th>Building</th>
<th>0. 川内萩ホール Kawauchi Hagi Hall</th>
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<tbody>
<tr>
<td>Room</td>
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### 20th Sep. (Tue)

- **13:00-18:00**
  - Registration

- **18:00-20:00**
  - Welcome Party

### 9:30-12:00<br>OPENING (Kawauchi Hagi Hall)

- **Key Note:**
  - Toyo Ito (Architect/ Japan), Ryu, Choon Soo (Architect/ Korea), Li Xiaodong (Tsinghua University/ China)

- **International Student Design Competition Mid Review**

### 12:00-13:30<br>LUNCH TIME

### 21st Sep. (Wed)

- **13:30-15:15**
  - **Theme Session A**
    - Risk Management, Disaster Prevention Mitigation and Recovery: A World beyond Borders, the Wisdom Shared by People - Our Future Cities and Regions under Risks

- **15:15-15:30**
  - Coffee Break (15:00-15:30)

### 18:00-20:00

### 22nd Sep. (Thu)

- **12:15-13:30**
  - LUNCH TIME

### 13:30-15:15

### 15:15-15:30

- Coffee Break (15:00-15:30)

### 15:30-17:15

### 18:00-20:00
1. 文系総合棟 Lecture Rooms : Multidisciplinary Research Building

<table>
<thead>
<tr>
<th>法学部第1講義室 Lecture Hall 1 [Law] (202)</th>
<th>法学部第2講義室 Lecture Hall 2 [Law] (201)</th>
<th>経済学部第1講義室 Lecture Hall 1 [Economics] (203)</th>
<th>経済学部第2講義室 Lecture Hall 2 [Economics] (204)</th>
<th>第1小講義室 Lecture Room 1 (211)</th>
<th>第2小講義室 Lecture Room 2 (212)</th>
<th>第3小講義室 Lecture Room 3 (213)</th>
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**<9:00> OPENING (Kawauchi Hagi Hall)**

**LUNCH TIME**

<table>
<thead>
<tr>
<th>Theme Session C</th>
<th>History of Architecture: The Interface between Pure and Impure Lands - The Technique and Design of Buddha Land in East Asia</th>
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<tbody>
<tr>
<td>C-1.</td>
<td>Passive Techniques: Vernacular Architecture</td>
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<td>C-2.</td>
<td>Passive Solar and Daylighting</td>
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<td>C-3.</td>
<td>Building Energy</td>
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<td>C-4.</td>
<td>Building Envelope and Roof Techniques</td>
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<tr>
<td>C-5.</td>
<td>Urban Landscape 1</td>
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<td>C-6.</td>
<td>Urban Landscape 2</td>
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<td>C-7.</td>
<td>Design for Shrinking Society</td>
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Exhibition

Coffee Break (15:00-15:30)

Executive Meeting

<table>
<thead>
<tr>
<th>Theme Session D</th>
<th>Environmental Design: Challenges for Asian Architecture toward a Sustainable Society</th>
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<tbody>
<tr>
<td>B-1.</td>
<td>Regional Culture and Tradition 1</td>
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<td>B-2.</td>
<td>Gardens/Urban History 1</td>
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<td>B-3.</td>
<td>Regional Culture and Tradition 2</td>
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<td>B-4.</td>
<td>Regional Culture and Tradition 3</td>
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<td>B-5.</td>
<td>Conservation and Revitalization 1</td>
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<td>Conservation and Revitalization 2</td>
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<td>B-7.</td>
<td>Architect 1</td>
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<td>B-8.</td>
<td>Architect 2</td>
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<td>B-9.</td>
<td>Modern and Colonial 1</td>
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<td>B-10.</td>
<td>Modern and Colonial 2</td>
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Exhibition

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<tr>
<th>Theme Session B</th>
<th>Structure: Earthquake Hazard and International Technical Support in Asia</th>
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<tbody>
<tr>
<td>B-11.</td>
<td>Urban History 2</td>
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<td>B-12.</td>
<td>Architectural History of Temple and Building</td>
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<td>B-17.</td>
<td>Architectural Theory 1</td>
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<td>Modern and Colonial 3</td>
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<td>B-21.</td>
<td>Texture Material/Earthquake</td>
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Exhibition

Coffee Break (15:00-15:30)

Executive Meeting

**LUNCH TIME**

**REGISTRATION 8:30-17:15**

Coffee Break (15:00-15:30)
<table>
<thead>
<tr>
<th>Building</th>
<th>2. 中講義棟 Lecture Rooms</th>
<th>3. 文系研究科棟 Graduate School of Arts and Letters Building</th>
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<tr>
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<td>法学部第3講義室 Lecture Hall 3 [Law]</td>
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<td>9:30-12:00</td>
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<td>12:00-13:30 LUNCH TIME</td>
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<td>13:30-15:15</td>
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<td>15:15-15:30 Coffee Break (15:00-15:30)</td>
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<td>3. 文系研究科棟</td>
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<td>317 Room</td>
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<9:00> OPENING (Kawauchi Hagi Hall)

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<tr>
<th>LUNCH TIME</th>
<th>11:30-13:30 Lunch Room</th>
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</table>

A-1. Local Design 1
A-3. Computational Design 1
A-5. Design for Post Crisis
Coffee Break (15:00-15:30)

A-2. Local Design 2
A-4. Computational Design 2
A-6. Materiality

A-7. Design Method 1
A-8. Aging Society 1
A-9. Facility Planning 1

A-10. Design Method 2
A-11. Aging Society 2
A-12. Facility Planning 2

LUNCH TIME
Coffee Break (15:00-15:30)

A-13. Design Method 3
A-14. Aging Society 3
A-15. Facility Planning 3

C-13. Urban Heat Island
A-16. Regional Planning
A-17. Facility Planning 4

13:00-17:30 International Student Design Competition Final Review

Farewell Party
### 11th ISAIA Program

<table>
<thead>
<tr>
<th>Sep. 20 (Tue)</th>
<th>Sep. 21 (Wed)</th>
<th>Sep. 22 (Thu)</th>
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### Key Events
- **Opening Ceremony** (0:Kawauchi Hagi Hall)
- **Keynote Speech** (0:Kawauchi Hagi Hall)
- **Theme Sessions**
  - **TS-A** (0:Kawauchi Hagi Hall)
  - **TS-B** (1:Multidisciplinary Research Building)
  - **TS-C** (1:Multidisciplinary Research Building)
- **Academic Sessions**
  - 1:Multidisciplinary Research Building
  - 2:Lecture rooms
  - 3:Graduate School of Arts and Letters Building
- **Registration** (0:Kawauchi Hagi Hall)
- **Student Competition Workshop** (0:Kawauchi Hagi Hall)
- **Student Competition Workshop** (1:Multidisciplinary Research Building)
- **Student Competition Workshop** (Qatar Hall)
- **Lunch*** (4:Kitchen Terrace Couleur)
- **Lunch*** (4:Kitchen Terrace Couleur)
- **Excursion**

### Additional Events
- **Welcome Party** (0:Kawauchi Hagi Hall)
- **Executive Meeting**
  - AI, AIK, ASC
- **Student Competition Final Review** (Qatar Hall)
- **Farewell Party** (Qatar Hall)

*Lunch 11:30 - 13:30
<table>
<thead>
<tr>
<th>Keynote Speeches</th>
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<tbody>
<tr>
<td>Sep 21 (Wed) 9:30〜12:00</td>
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<tr>
<td><strong>Koreanity and Globality</strong></td>
</tr>
<tr>
<td>Ryu, Choon Soo</td>
</tr>
<tr>
<td><strong>Towards a reflexive regionalism</strong></td>
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<tr>
<td>Li, Xiaodong</td>
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<tr>
<td><strong>Removing the walls between people and nature, and person and person</strong></td>
</tr>
<tr>
<td>- What ‘resilience’ and ‘diversity’ mean to me –</td>
</tr>
<tr>
<td>Ito, Toyo</td>
</tr>
</tbody>
</table>
Theme Session

Sep 21 (Wed) 13:30～17:30  Kawauchi Hagi Hall

**Theme Session A  Risk Management, Disaster Prevention Mitigation and Recovery:**
A World beyond Borders, the Wisdom Shared by People --- Our Future Cities and Regions under Risks

Asia is prone to natural disasters such as earthquakes and typhoons, as well as other risks related to economic and demographic trend, and disaster prevention and risk management must be the fundamental basis of sustainable urbanism and the core of urban strategy to attain city competitiveness.

The Great East Japan Earthquake brought severe damage to Sendai city and Tohoku area. However, these cities managed to minimize the impact of disaster and achieved rapid recovery by leveraging know-hows from the past and resilient infrastructures.

This session is composed of two parts:

**The part 1 “Strategy for Our Future City Management”**
The panelists are city leaders who are involved in the strategy making of Asian cities and the discussion would be made from the wide-ranged perspectives including city resilience under the current economic climate, demographic trend and diverse risks, urban management strategy and related public-private partnerships.

**Speakers:**
Yumiko Noda (Partner, PwC Advisory LLC, Japan)
Lee, Kyung Hoon (Professor, Korea University, Korea)
Zhu Wei (Associate Professor, Tongji University, China)

**Moderator:**
Norio Maki (Professor, Disaster Prevention Research Institute, Kyoto University, Japan)
Akihito Aoi (Associate Professor, Meiji University, Japan)

**The part 2 “Toward Establishment of an Asian Disaster Recovery Cooperation Network”**
It focuses more specifically on the disaster recovery and covers topics such as historical and cultural context, practices in the damaged regions, citizen participation, the roles of the experts, and the possible inter-regional network to share knowledge and resources. The discussion would be made by younger architects, planners and researchers.

**Speakers:**
Norihito Nakatani (Professor, Waseda University, Japan)
Seo, Soo-Yeon (Professor, Korea National University of Transportation, Korea)
Osamu Murao (Professor, International Research Institute of Disaster Science, Tohoku University, Japan)
Ikaputra (Associate Professor, Universitas Gadjah Mada, Yogyakarta, Indonesia)
Song Bo (Director, China Architecture Design Group, China)

**Moderator:**
Akihito Aoi (Associate Professor, Meiji University, Japan)
Norio Maki (Professor, Disaster Prevention Research Institute, Kyoto University, Japan)

Sep 22 (Thu) 13:30～17:00  Lecture Rooms : Multidisciplinary Research Building
Lecture Hall 1 [Law] (202)

**Theme Session B  Structure:**
Earthquake Hazard and International Technical Support in Asia

The session encompass comprehensive discussion on the technical aspects of earthquake disaster and reconstruction in the Asian region. The recent earthquakes in Asia including the 2015 Gorkha Earthquake in Nepal are discussed. The characteristic damage, repair methodology, structural reinforcement, technical support to developing countries and structural intervention to cultural heritage are introduced and discussed by experts in the field.
Speakers: Koichi Kusunoki (Associate Professor, Earthquake Research Institute, University of Tokyo, Japan)  
Manjip Shakya (Structure Head of Department, Khwopa Engineering College, Nepal)  
Suman Rajbhandari (Technical Team Leader, Nepal Engineering College, Nepal)  
Netra Prakash Bhandary (Associate Professor, Ehime University, Japan)  
Oh, Sang Hoon (Professor, Pusan National University, Korea)  
Hiroshi Imai (Senior Researcher, Mohri, Architect & Associates INC, Japan)  
Sunwook Kim (Researcher, The University of Tokyo, Japan)  

Moderator: Kaori Fujita (Associate Professor, The University of Tokyo, Japan)

Sep 21 (Wed) 13:30～18:00 Lecture Rooms : Multidisciplinary Research Building Lecture Hall 1 [Law] (202)

Theme Session C History of Architecture:  
The Interface between pure and impure lands: The technique and design of Buddha lands in East Asia

Themed on Buddha-land created by the oath and ascetic practices of bodhisattva, this session discusses the technique and design concerning the East Asian Buddha-land, based on the latest research findings by Japan, China and Korea, regarding the structure including pillars and beams, enshrinement of Buddha images and their daises, centering on the interface between pure and impure lands.

Speakers: Keisuke Fujii (Professor, The University of Tokyo, Japan)  
Ryusaku Nagaoka (Professor, Tohoku University, Japan)  
Ding Yao (Associate Professor, Tianjin University, China)  
Kim, Wang-Jik (Professor, Myongji University, Korea)

Commentator: Han Dong Soo (Professor, Hanyang University, Korea)  
Satoshi Unno (Researcher, Nara National Research Institute for Cultural Properties, Japan)

Moderator: Shunichi Nomura (Associate Professor, Tohoku University, Japan)

Sep 22 (Thu) 9:00～12:30 Lecture Rooms : Multidisciplinary Research Building Lecture Hall 1 [Law] (202)

Theme Session D Environmental Design:  
Challenges for Asian Architecture toward a Sustainable Society

The Asia of today is made up of two aspects; the aging society as well as emerging society. This session presents the present status and future vision concerning the creation of an Asian architectural network, following the introduction and presentations regarding concrete efforts of future architecture toward a sustainable society.

Speakers: Ahmad Djuhara (President, IAI-Indonesian Institute of Architects, Indonesia)  
Weijen Wang (Professor, The University of Hong Kong, Hong Kong)  
Kimm, Woo-Young (Professor, Sung Kyun Kwan University, Korea)  
Riichi Miyake (Professor, Fuji Women's University, Japan)  
Hirokazu Suemitsu (Representive director, SUEP., Japan)

Moderator: Akiko Watanabe (Associate Professor, Tokyo Denki University, Japan)
Academic Session Program

A-1 Local Design 1 _____________________________________________ Sept. 21 (Wed) 13:30-15:15

A-1-1 Conversion Process of Kura Warehouses into Cultural Facilities- A Case in Ichikawamisato City, Yamanashi Prefecture -
Gaku Inoue1, Moe Kusano1, Tomoya Tsuji2 and Jorge Almazan1
1 Keio University, 2 Ohyashi Corporation, Japan

A-1-2 Design and Analysis of Acoustic Reconstruction of Recording Studio
Zhang Jiuhong, Lv Jianmei, Zhou Zhanfan and Fang Meixu
Shenyang Jianzhu University, China

A-1-3 Reorganization Process of Public Junior High Schools After the Enactment of New Secondary Education System in Tottori Prefecture
Ryota Mitani1, Tomohisa Hosoda1, Mahito Nakazono1, Akira Ushijima1, Reiko Shimokura1 and Yumiko Fukuda1
1 Yamaguchi University, 2 National Institute of Technology, Yonago College, 3 National Institute of Technology, Kure College, 4 Hiroshima Institute of Technology, Japan

A-1-4 Method for renovation and extension of the housing in Tawanmai Community in Khon Kaen Province, Thailand
Toru Irie1 and Nayatat Tonmitr2
1 University of the Ryukyus, Japan, 2 Khon Kaen University (KKU), Thailand

A-1-5 A Field Evaluation on Walking Environment focusing on Route No. 16 of Jeju Olle Trail
Kyeonghwa Byun1, Changgeun Yoo2 and Jeong-Lim Lee3
1 Catholic Kwandong University, 2 Mokpo National University, 3 Jeju Tourism University, Korea

A-1-6 Relationship of Urban Planning, Car and Architectural Form in Shintoshin, Naha
Yuki Morimoto1 and Toru Irie2
1 Theater Architects Co.,Ltd., 2 University of the Ryukyus, Japan

A-1-7 Methods of regional expression by the use of PCa in the buildings of Okinawa
Morihisa Shiroma1 and Toru Irie2
1 KUNIKEN LTD., 2 University of the Ryukyus, Japan

A-2 Local Design 2 _____________________________________________ Sept. 21 (Wed) 15:30-17:15

Tatsunori Sato1, Piyarat Nanta2, Toru Irie1 and Nobuyuki Ogrua1
1 University of Ryukyus, Japan, 2 King Mongkut's Institute of Technology Ladkrabang, Thailand

A-2-2 A study on Characteristic of Bungalow in Indian Tea Garden
Mamiko Miyahara1 and Ayano Toki2
1 Japan Women's University, 2 Tohoku University, Japan

A-2-3 Technology adoption of building standard in developing countries, focusing on Thailand and Bangladesh
Rumiko Sasaki
Tokyo Metropolitan University, Japan

A-2-4 Humanistic Footholds of the Planning and Design for New University Campus in the Information Age: A Case Study of Southwest Jiaotong University
Min Li, Han Fang and Xiaoyang Hu
Southwest Jiaotong University, China

A-2-5 Psychological Comfort Degree Evaluation and Promotion Strategy of the Exterior Space of Architecture in Cold Region
Shiqi Wang and Hongyuan Mei
University of Harbin Institute of Technology, China

A-2-6 Research on the mode of "temporary construction" in post-disaster reconstruction
Dongming He1, Tong Zhou1 and Yong Ma2
1 Hubei Institute of Fine Arts, 2 Wuhan University of Science and Technology, China

A-3 Computational Design 1 ______________________________________ Sept. 21 (Wed) 13:30-15:15

A-3-1 A Study on the Control of 3-Dimensional Folding Type Exterior Skin
Joo Young Kim, You Chang Jeon and Sung Wook Kim
Ajou University, Korea

A-3-2 The Method of Renovating Older Apartment Buildings: Finding a Way to Shared Living A Case Study of SOCIAL APARTMENT NAKANOSHIMA in Sapporo, Japan
Ken Tsubouchi, Suguru Mori and Rie Nomura
Hokkaido University, Japan
A-3-3 The evacuation optimization of the large-scale Commercial Complex based on the space syntax
Yuting Chen1 and Teng Fei1
1 Harbin Institute of Technology, 2 Architectural Design and Research Institute of HIT, China

A-3-4 A DSM-Based Study on Optimization Method of Design Process of Prefabricated Housing
Qiang Wang1, Zao Li1, Decai Wang1, Weiyi Cui1 and Jingjing Zhang2
1 Hefei University of Technology, 2 Anhui Vocational College of Press and Publishing, China

A-3-5 Parametric Generative Design of the Prefabricated Parking Structure
Yuan Li, Qiming Wang, Baolong Li, Yanyan Zhao, Jinsheng He and Pei Zhao
China Aerospace Construction Group Co. Ltd, China

A-3-6 Interdisciplinary Design Approach through Maya
Claudia van Velthooven and Marc Aurel Schnabel
Victoria University of Wellington, New Zealand

A-3-7 A Collage of European and Traditional on Netherlands-Indies Pavilions
Harry Kurniawan1,2
1 Tohoku University, Japan, 2 University of Gadjah Mada, Indonesia

A-4 Computational Design 2 _____________________________________ Sept. 21 (Wed) 15:30-17:15

A-4-1 Space management on campus of a mobile BIM-based augmented reality system
Seungyeul Ji, Min-ho Back, Mi-kyoung Kim and Han-jong Jun
Hanyang University, Korea

A-4-2 Development of the education training system which utilized BIM and Portable device
Hideki Nishizawa1, Hirotane Kanisawa1, Keito Yoshida2 and Hiroyuki Funaki3
1 Shibaura Institute of Technology, 2 Polytechnic University, Japan

A-4-3 VR365-An advancement of building and environment Field Survey Method for the Collaborative Review Procedure
Soo-Hoon Park1 and Jackyung Lee2
1 Hanbat National University, 2 Hanyang University, Korea

A-4-4 Integrating CFD and AR for Indoor Thermal Environmental Design Feedback
Kazuki Yokoi, Tomohiro Fukuda, Nobuyoshi Yabuki and Ali Motamedi
Osaka University, Japan

A-4-5 A method to Link between BIM and GIS for Early Stage of Building Design
Kim Eonyong1, Youchang Cho1 and Hanjongsun Jun2
1 Korea Virtual Reality, 2 Hanyang University, Korea

A-4-6 Development of a BIM-based Carbon Dioxide Emission Estimation System -Focus on an Apartment in Korea-
Yong-Ju Lee and Han-Jong Jun
Hanyang University, Korea

A-4-7 Overview of BIM Implementation in Singapore and Japan
Takashi Kaneta, Shuzo Furusaka, Atsushi Tamura and Nisi Deng
Kyoto University, Japan

A-5 Design for Post Crisis _______________________________________ Sept. 21 (Wed) 13:30-15:15

A-5-1 The transformation of the traditional building units and lots of the historical town of Khokana in Kathmandu valley from 1934 until immediately after the 2015 Nepal Gorkha earthquake: Case study along Nyala Dan street
Hiroki Yamada1 and Naoki Furukawa2
1 National Research Institute for Cultural Properties, Tokyo, 2 Metropolitan Tokyo University, Japan

A-5-2 Study for grasp of situation about shelter in The Great East Earthquake and Tokyo.
Masakazu Abe and Akiko Watanabe
Tokyo Denki University, Japan

A-5-3 Effect of Design on Maintenance of Public Building in Lagos State Nigeria
Oluwasegun Akande and Kazunobu Minami
Shibaura Institute of Technology, Japan

A-5-4 Evaluation of Residential Environment in Long-Term Living of Temporary Housing - Measuring Method by Element in Appearance -
Akihiro Iwasa1, Akira Sato2, Shiori Suzuki3 and Satoshi Boda4
1 Hosei University, 2 Freelance, 3 Tokyo University, 4 Niigata University, Japan

A-5-5 Counterpart assistance mode effected on the assistant housing projects of Dujiangyan City after Wenchuan Earthquake
Jiaoru Xi, Yasuaki Onoda and Haruka Tsukuda
Tohoku University, Japan
A-5-6 The System of the Temporary Facilities for Private Business Built by the Governments after Disasters in Japan
Akinobu Masumura and Aya Kubota
University of Tokyo, Japan

A-5-7 The Role of NGOs in Post-Disaster Housing Provision for a People Centered Recovery
Elizabeth Maly and Kanako Iuchi
Tohoku University, Japan

A-6 Materiality
Sept. 21 (Wed) 15:30-17:15

A-6-1 Plywood Development in Twentieth Century Japan: Crafting Modernity
Kaon Ko
Tokyo University of Science, Japan

A-6-2 Design study on building design using the bamboo.
Tsubasa Tametani and Akiko Watanabe
Tokyo Denki University, Japan

A-6-3 Correlation between the impression and the size of lattice: As the target of width and pitch
Michinori Kabashima and Masahiro Takasago
Wakayama University, Japan

A-6-4 From Dismantling to Construction- the Architectural Design Methods to Increase Old Brick Value
Hao Tang, Yanyan Xu and Yan Wang
Tianjin Chengjüan University, China

A-6-5 A Study on the Expressive Characteristics of Newly Materialized Plastic - Focusing on the relationship between product characteristic and surface expression -
Sung Wook Kim, You Chang Jeon and Eun-Soo Kim
Ajou University, Korea

A-6-6 The Exploration and Research of Membrane Material Experimeted in Temporary Buildings
Mo Li\textsuperscript{1}, Xin Sui\textsuperscript{2} and Ying Gao\textsuperscript{1}
\textsuperscript{1} City Institute, Dalian University of Technology, \textsuperscript{2} Dalian Nationalities University, China

A-6-7 Variable Analysis on Cause Factors of Glass Material Using in Designing Building
Akhlish Diinal Aziiz and Hanson Endra Kusuma
Bandung Institute of Technology, Indonesia

A-7 Design Method 1
Sept. 22 (Thu) 8:30-10:15

A-7-1 Study on the Elements for the Psychological Comfort of the Tiny House’s Living Room in Japan
Yue Zhang and Tomoyuki Tanaka
University of Kumamoto, Japan

A-7-2 Flexible Partitions in the Design for Adaptability in Chinese Public Housing
Yanbing Li, Guopeng Li and Zhubin Li
Dalian University of Technology, China

A-7-3 The Adaptability of Long Life Housing in Japan- Case Studies of Century Housing System (CHS) -
Kazunobu Minami
Shibaura Institute of Technology, Japan

A-7-4 The New Type Industrialization Construction Based on Component Method ——Taking YI HUI TANG as An Example
Lirui Zhang
Southeast University of Nanjing, China

A-7-5 A Spatial Planning for Home-Sharing : Inter-generational of the Aged and Young
Kuee-Sook Suh\textsuperscript{1}, Jeasoon Cho\textsuperscript{2}, Ju Yeon Kim\textsuperscript{1} and Jun su Park\textsuperscript{1}
\textsuperscript{1} Soongsil University, \textsuperscript{2} Korea National University of Education, Korea

A-7-6 A Study on Space Configuration for Youth Apartments in China Based on the Use of Existing Buildings
Zhe Liu
Southeast University, China

A-7-7 Relations of the actor and the audience in the traditional theatre space of Japan
Shozo Motosugi
Nihon University, Japan
A-8 Aging Society 1  _____________________________________________ Sept. 22 (Thu) 8:30-10:15

A-8-1 The Preliminary Discussion about the Elderly Suitability Design of the Small and Middle Scale Gymnasium in Winter-City based on the Behavior Characteristics of the Elderly
Ying Liu, Ge Yu and Changhe Wang
Harbin Institute of Technology, China

A-8-2 A Social Network Analysis by Deciding Factor in Residential Mobility of Baby boomer Retirees for Neighborhood Regeneration
Soim Park
University of Yonsei, Korea

A-8-3 Constructing Guidelines for the Common Space of Community Village within the 'Age-Friendly City'
Jin Woo Lee
Hanyang University, Korea

A-8-4 Outdoor Activity Space Design of Residential Area Based on Behavioral Characteristics of the Elderly --Taking Xuzhou as an example
Dong Wang, Hongyun Zhu and Chang Ding
China University of Mining and Technology, China

A-8-5 Survey and Comparative Research on Urban Endowment Facilities between China and Japan Abstract
Ge Yu, Ying Liu and Yunfeng Chen
Harbin Institute of Technology, China

A-8-6 Survey and Analysis of Existing Residence Outdoor Accessible Space Status - A Case Study of Dalian
Mingke Zhang, Yue Fan, Li Dong and Qiong Zhang
Dalian University of Technology, China

A-8-7 The Life Support by Elderly Welfare Policy and Dwelling Environment in Rural Village - As a Case Study of Touge Village in Monzen-cho, Wajima City –
Ran Zhang, Marika Miyazaki, Hidetumi Yamaguchi and Juichi Yamazaki
Kobe University, Japan

A-9 Facility Planning 1 __________________________________________ Sept. 22 (Thu) 8:30-10:15

A-9-1 Applying an Evacuation Planning Model with Modified Capacity-Constrained Network Voronoi Diagram to Umeda Underground Mall
Ryo Yamamoto and Atsushi Takizawa
Osaka City University, Japan

A-9-2 A study of the spatial cognition of visually impaired people in indoor living space
Momoka Hirai, Haruka Tsukuda and Yasuaki Onoda
Tohoku University, Japan

A-9-3 A Study on the Interaction between Hope Primary School and Local Communities in Rural Area of China
Yi Fan and Kenichi Tanoue
Kyushu University, Japan

A-9-4 A comparative study of classrooms with interactive whiteboards in Britain, Sweden, Korea and Japan
Reiko Shimokura¹, Kaname Yanagisawa¹, Mai Morita² and Youngju Yoo³
¹ National Institute of Technology, Kure College, ² Chiba University, ³ Okamura Corporation, Japan

A-9-5 Observations on Work Space Characteristics for Effective Smart Work
Hyunhee Lee¹ and Sanghoe Koo²
¹ Gachon University, ² Korea University, Korea

A-9-6 Study on the environmental design which supports an individual intellectual activity -The influence which the size and the color environment in the booth space has on a intellectual work-
Tepppei Baba and Akiko Watanabe
Tokyo Denki University, Japan

A-10 Design Method 2 __________________________________________ Sept. 22 (Thu) 10:30-12:15

A-10-1 "Memory regeneration"-The Thinking of symbiotic design of domestic and foreign industrial heritage architecture
Yanjin Li and Fei Fu
Southwest Jiaotong University, China

A-10-2 Study on a preservation method of the regional characteristics of affected areas -Through the restoration model production workshop in Rikuzentakata, Iwate Prefecture-
Kazuki Isomura¹, Osamu Tsukihashi¹ and Takayuki Tomobuchi²
¹ Kobe University, ² Wakayama University, Japan
A-10-3 International Exchange x Architectural Design Education: Akashi College and UFRGS Tearoom project workshop case study
Adriana Higashino and Kazumi Kudoh
National Institute of Technology, Akashi College, Japan

A-10-4 The Application of PBL (Problem-Based Learning) Teaching Method in Architectural Basic Education
Jianmei Lv, Jiuhong Zhang and Ang Li
Shenyang Jianzhu University of Shenyang, China

A-10-5 Urban Design Education in Japan: Current Issues and Future Prospects
Hiroyuki Sasaki
Meiji University, Japan

A-10-6 Integration of Education, Research and Social Service at Architecture School in Collaboration with Local Community - Urban Design School Shibaura -
Hidetoshi Maeda
Shibaura Institute of Technology, Japan

A-10-7 A Study On Commissioning (Cx) As The Confirmation Method Of Building Performance About The Client’s Support Service
Keiichi Wakisaka¹, Ye Li² and Masaya Okumiya³
¹Shizuoka Institute of Science and Technology, ²Sakakura Associates, ³Nagoya University, Japan

A-11 Aging Society 2 ___________________________________________ Sept. 22 (Thu) 10:30-12:15

A-11-1 The Study on the Renovation of Urban Multilayer-unit Residences in 1980s for the Elderly
Ming Liang¹ and Hui Li²
¹International Design Studio. Tsinghua, ²China Shanghai Architectural Design & Research Institute Co., Ltd., China

A-11-2 Survey on Living Conditions based on Case Studies of Home Sharing Project by Seoul City for the Elderly and the Young
Kuee Sook Suh¹, Ju Yeon Kim¹, Jae Soon Cho² and Mi Suk Lee³
¹Soongsil University, ²Korea National University of Education, Korea

A-11-3 The Actual Situation of Housing Reformation In Unit-Type Apartments of Company Housing Complex In China
Xiaomeng Wang¹, Tustomu Shiga¹ and Huiqin Hu²
¹Kyushu University, Japan, ²Beijing University of Technology, China

A-11-4 Study on the actual situation of the front-access housing for revitalizing the communities in disaster affected areas
Haruka Tsukuda and Yasuaki Onoda
Tohoku University, Japan

A-11-5 Research on planning strategy and design method of new community-oriented residential facilities for the aged
Jinghua Dai and Dian Zhou
Xi’an Jiaotong University, China

A-11-6 Survey on the Use of Facilities and Activities for the Elderly in Residential Areas
Huijuan Li, Teruki Yamagishi, Risa Noda, Koki Kitano, Naoyuki Hirota and Shuji Funo
Nihon University, Japan

A-11-7 Analysis on the Planning and Design of Unisex Restrooms
Chih-yan Chang¹²
¹Architecture and Building Research Institute, Ministry of Interior, ²Tamkang University, Taiwan

A-12 Facility Planning 2 ________________________________________ Sept. 22 (Thu) 10:30-12:15

A-12-1 Planning and verification of a renewal project of children's home with downsizing care unit
Aya Ishigaki¹, Kiwako Kamo², Masashi Sagabe², Masayoshi Takeuchi², Manuel Tardits³, Naoya Ikeda³ and Yoshinobu Hirano⁴
¹Hiroshima University, ²MIKAN, Japan

A-12-2 Usage Comparison of Childcare Support Facilities with Different Floor Material and the Arrangement Corner Portion
Saya Okazaki¹, Yuri Ito¹, Sachiko Yamamoto² and Mahito Nakazono¹
¹University of Yamauchi, ²University of Tsukuba, Japan

A-12-3 Creating a Positive Learning Environment for a Better Children Development-Designing Outdoor Facilities to Incorporate Outdoor Learning in to School System in Indonesia
Siti Luzviminda Harum Pratiwi Setyawan¹ and Siti Irene Astuti Dwiningrum²
¹Bandung Institute of Technology, ²Yogyakarta State University, Indonesia

A-12-4 Study of Correlation between Bioocoenose Systems and Technical College Campus Systems
Qushi Hao, Benchen Fu and Lingjun Hao
Harbin Institute of Technology, China
A-12-5 The Adaptability of New Educational Complex in Planning College Campus -learning from the new camps project of Beijing Film Academy
Tianyou Pan and Yinzi Tan
China Architecture Design Group, China

A-12-6 The Senior Comfort Investigation and Inclusiveness Reconstruction in Urban Leisure Square of Cold Regions
Yao Fu, Qifeng Zhang andShaolei Zhang
Shenyang Jianzhu University, China

A-12-7 Research on Vitality Stimulation of Campus Open Space: A Case Study of Campuses in Harbin, China
Xue Meng1, Benchen Fu2 and Chunqi Liu1
1 Harbin Institute of Technology, 2 The Architectural Design and Research Institute of HIT, China

■ A-13 Design Method 3 __________________________________________ Sept. 22 (Thu) 13:30-15:15

A-13-1 The Influence of German School Architecture on Britain in the Late Nineteenth Century and the Early History of School Architecture in Japan
Seiji Mitsuoka
Kurume Institute of Technology, Japan

A-13-2 Design Creation of Rural Architecture in Underdeveloped Areas-Take the Rural Practical Cases of TYIN as Examples
Yu Zhang, Ruiqi Wang and Li Dong
Dalian University of Technology, China

A-13-3 A Study on trend of contemporary architectural design with Viewpoint of the 'Lightness' - In Case Studies on the winner project of Young Architecture Program(YAP) in MoMA PS1-
Jin Jae Kim, Sung Wook Kim and You Chang Jeon
Ajou University, Korea

Xiaolei Shi and Hongyuan Mei
Harbin Institute of Technology University, China

A-13-5 Form-Finding through Evidence-Finding: Taking the course design “Future Settlement Pattern” as an example
Tianyu Zheng and Gang Yu
Southeast University, China

A-13-6 Structure As a Designer: Architectural Form design method Based On Structural Form-Finding
Qian Wang and Qing Gao
Southeast University, China

A-13-7 The Architectural Creation in Historical Environment Based on TectonicCulture
Haijing Huang and Hongliang Wang
Chongqing University, China

■ A-14 Aging Society 3 ___________________________________________ Sept. 22 (Thu) 13:30-15:15

A-14-1 Quality of life resulting from the relationship between residents in elderly group ling - A study through management history of 'Group House SAKURA'
Junko Miyano1 and Mitsuaki Takada2
1 The Hyogo Institute of Assistive Technology, 2 Kyoto University, Japan

A-14-2 Spatial Configuration and Space for Creating Income (SCI) for Arts and Music School
Nayatat Tommit
Khon Kaen University (KKU), Thailand

A-14-3 The Construction Process and Use Characteristics of Day Care Facilities for the Elderly in Mountainous Areas - Case Study on northern part of Hagi area in Yamaguchi Prefecture-
Nagisa Ishibashi1, Mahito Nakazono1, Sachiko Mishima1, Syohken Koh1, Sachiko Yamamoto2 and Saori Ohashi1
1 University of Yamaguchi, 2 University of Tsukuba, Japan

A-14-4 Space Utilization of Regional Nucleus Day Care Facility - Case Study in Abu Town Yamaguchi Prefecture -
Sachiko Mishima1, Mahito Nakazono1, Syohken Koh1, Sachiko Yamamoto2, Nagisa Ishibashi1 and Saori Ohashi1
1 Yamaguchi University, 2 University of Tsukuba, Japan

A-14-5 A Research on Performance Evaluation of the Pilot Project of Building Common Facilities for Seniors in Rural Areas - Focusing on the Project of Building Public Bathhouses -
Seung-Geun Kim1, Kyeonghwa Byun1, Hyun-Hak Do1, Jae-Hyung Seo1 and Jeong-Lim Lee5
1 Gangdong University, 2 Catholic Kwandong University, 3 Yeungnam University, 4 SUN Architects & Planners, 5 Jeju Tourism University, Korea
A-14-6 A study monitoring environmental systems for the elderly by intelligent space
Akiko Watanabe and Himiya Kato
Tokyo Denki University, Japan

A-14-7 Elderly House Environmental Fall Risk Factors in Yogyakarta
Stefani Natalia Sabatini, Hanson E. Kusuma and Lily Tambunan
Bandung Institute of Technology (Institut Teknologi Bandung), Indonesia

A-15 Facility Planning 3 ________________________________________ Sept. 22 (Thu) 13:30-15:15

A-15-1 A Study on the State of Implementation of Notices in Group Homes for the Elderly with Dementia
Shuko Ito¹, Satoru Yamazaki², Hideaki Katsumata¹ and Yusuke Mizuno¹
¹Tokyo city University, ²Kanagawa University of Human Services, Japan

A-15-2 Satisfaction Factors Affecting Visitors to visit the Museum
Angela Upitya Paramitasari
Bandung Institute of Technology, Indonesia

Seonguk Hong, Seunghun Kim, Kiyoun Jang, Mirae Park and Yongtaeg Lee
Hanbat National University, Korea

A-15-4 Primary Exploration of the Intensive Design of the National Fitness Centers under the Concept of Compact City
Qianli Guo and Lingling Li
Harbin Institute of Technology, China

A-15-5 Study of new zoning by the five elements of Feng Shui
Kumiko Uchikawa
Hosei University, Japan

A-15-6 Evaluation of Commercial Space in Rail Transit Station Area Based on Semantic Differential Method-Take Chengdu as Example
Shaofei Niu and Zhongwei Shen
Southwest Jiaotong University, China

A-15-7 Research on the Spatial Pattern of Shopping Malls Base on New Business Model —— Taking Dalian Shopping Mall as Example
Wenting Yu, Bo Zhou and Jianjun Liu
Dalian University of Technology, China

A-16 Regional Planning _________________________________________ Sept. 22 (Thu) 15:30-17:15

A-16-1 Study on the transparent vinyl sheets of the store front around the old tenma market of osaka
Yuki Takumi and Yoshihiro Kametani
Kansai University, Japan

A-16-2 A Study on Parking Reality in Residential Areas and an Improvement Plan -Focusing on concentrated areas of multi-family housings in Gongneung-dong, Seoul-
Sung-eun Hwang and Boo-seong Kang
Seoul National University of Science and Technology, Korea

A-16-3 Research of the Evaluation Model of Urban External Space from the Perspective of Internet- A Case Study of the Southern Regions of the Yangtze River
Fang Zhang and Xi Zhou
Suzhou University of Science and Technology, China

A-16-4 Analysis of Alley-way Risks in Multi-unit Dwelling Zones Based on CPTED Checklists
Sang-pil Jung and Boo-seong Kang
Seoul National University of Science and Technology, Korea

A-16-5 Architecture with Landscape Methods under sustainable urbanism, a cross case study of Japan and China.
Yizhou Zhao
Tsinghua University, Beijing, China

A-16-6 The Landscape in “View of Traveling”-Creative Learning of Regional Traditional Settlement Landscape Space
Wei Wang¹ ²
¹Harbin Institute of Technology, ²Shenyang Jianzhu University, China

A-17 Facility Planning 4 ________________________________________ Sept. 22 (Thu) 15:30-17:15

A-17-1 Research on Framework of Automatic and Intelligent Design Method at early stage of Architectural Design
Dagang Qu and Cheng Sun
Harbin Institute of Technology, China
A-17-2 External Space around the Dwelling Units of Prefectural Housing in Okinawa, Japan
Genki Oshiro¹ and Toru Irie²
¹ HISATOMO PLAN Co., Ltd., ² University of the Ryukyus, Japan

A-17-3 Connection and Technology Characteristics of IoT-based household appliances
Soojung Chang and Kyungsook Nam
Hanyang University, Korea

A-17-4 Factors Influencing Social Interaction Quantity in Students’ Rental Housing
Bunga Sakina and Hanson Endra Kusuma
Bandung Institute of Technology, Indonesia

A-17-5 The Residence Form of Shared Housing Utilizing Vacant Houses -Analysis of examples of Ube City and Yamaguchi City in Yamaguchi prefecture-
Tomoko Ohba¹, Mahito Nakazono² and Akira Ushijima³
¹ The Urban Policy Institute, Yokosuka City, ² Yamaguchi University, Japan

A-17-6 Independence and Symbiosis : Design Thinking on Collective Office Pattern
Huanyu Hou¹, Ying Gao² and Zhen Gu³
¹ Architecture School of Tianjin University, ² Dalian University of Technology, ³ Walton Design Consulting Engineering Co., Ltd., China

A-17-7 Architectural planning of the stand-alone public toilets in Okinawa, Japan
Yoshihiro Kuniyada¹ and Toru Irie²
¹ Studio Jag, ² University of the Ryukyus, Japan

B-1 Regional Culture and Tradition 1 ______________________________ Sept. 22 (Thu) 8:30-10:15

B-1-1 Study on the being Value of Ma Yue-po Stockade Village in Wu Zhong,Ning Xia
Wang Wei¹ and Feng Ke²
¹ North National University, ² Yan Shan University, China

B-1-2 Bridge and Beyond: the Conservation and Management of the Historic Landscape of Luoyang Bridge in Quanzhou
Yuan Ren, Jing Fu, Min Wang and Wenhong Yu
Institute of Architectural History, China Architectural Design Group, China

B-1-3 A belated Recovery towards Resilience? Historic Preservation and Post-disaster Recovery
Shu-Mei Huang
National Taiwan University, Taiwan

B-1-4 Research On the Disaster Coping Capacity of Dali Village, Southwest China
Fei Du and Kenji Okazaki
University of Kyoto, Japan

B-1-5 Research on Problem and Countermeasure of Outdoor Space Transformationfor the Elder in the Historic District in China -A case study on the South Gate Historic District in Santai County-
Hongtiao Liu¹, Xuan Wang², Min Li¹ and Gen Taniguchi³
¹ Southwest Jiaotong University of Chengdu, China, ² Southwest University of Science and Technology of Mianyang, China, ³ Nagoya University, Japan

B-1-6 Analysis on the settlement form of Qingshan Village under the perspective of cultural ecology
Shifen Li, Wenpeng Song, Ying Hu and Jiayi Zhao
Dalian University of Technology, China

B-1-7 Balinese Traditional Architecture Conservation: the Diversity of Housing Pattern
Yudantini Ni Made
Udayana University, Indonesia

B-2 Gardens/Urban History 1 ____________________________________ Sept. 22 (Thu) 10:30-12:15

B-2-1 Study on Private Garden of Kulangsu (1860-1941)
Yi Qian and Yiran Meng
North China University of Technology, China

B-2-2 Room-cluster or Garden-room: spatial analysis of the two halls in Lingering Garden
Dongxue Lei and Andong Lu
Nanjing University, China

B-2-3 A Study on Landform Characteristics of the Surrounding Mountains and Garden Site of Korean Byeol-Seo Gardens
Yerin Kim¹, Akihiko Ono² and Toru Mitani³
¹ Chiba University, ² Chuo University, Japan

B-2-4 The structure of ideas in Isamu Noguchi’s garden design
Yuriko Imamura¹ and Eiji Kumazawa²
¹ University of Fukui, ² National Institute of Technology, Ishikawa College, Japan
B-2-5 A Study on revetment Design of Canals and Gardens in Suzhou, China
Akihiko Ono
Chuo University, Japan

B-2-6 Jin dynasty brick tombs made by imitating wood structures and the house layout system in China
Sohun Baik
MyongJi University, Korea

B-2-7 A Study on the Usage Change of National Land in Keijo( 京城 ) Focus on Surrounding Area Near #193, 2nd-Hwangeum-Jeong( 黃金町 )
Eun Ae Sim and Dong Soo Han
Hanyang University, Korea

■ B-3 Regional Culture and Tradition 2 ______________________________ Sept. 22 (Thu) 8:30-10:15

B-3-1 Cultural heritage value of the Minang houses at Padang in West Sumatra Province, Indonesia
Katsura Sato and Masahiko Tomoda
National Research Institute for Cultural Properties, Tokyo, Japan

B-3-2 Considerations of Spatial structure of Northeast Thailand, Tai-Loei Settlement Chiang Khan
Tomoki Kitaguchi, Misao Kawai and Juan Ramon Jimenez Verdejo
The University of Shiga Prefecture, Japan

B-3-3 Visualizing Patterns of Occupation in the Old Pugao Village
Glen Wash Ivanovic¹ and Shinya Miyazaki²
¹ X'Ian Jiaotong-Liverpool University, China, ² Fukuoka University, Japan

B-3-4 A study on the Taiki old elementary school as the Regional Environmental heritage : from the measuring survey
Hiroaki Ueda¹, Tomotsune Honda², Shusuke Inachi² and Ai Sakaki³
¹ Environment Creation Support Center (NPO), ² Setsunan University, Japan

B-3-5 The spatial configuration of the local landscape of small villages along the main historical road called Koza-Kaido, Japan
Tomotsune Honda¹, Hiroaki Ueda², Shusuke Inachi² and Ai Sakaki³
¹ Setsunan University, ² Environment Creation Support Center, Japan

B-3-6 Form and Embodiment of Space; “Lobo” Ngata Toro
Wasilah Sahabuddin¹ and Fuad Zubaidi²
¹ Islamic State Alauddin University, ² Tadulako University, Indonesia

B-3-7 The Configuration of the Village as seen from the Stance of the Traditional houses in Kitamata
Masahiro Minobe, Masahiro Takasago and Tomoko Miyagawa
Wakayama University, Japan

■ B-4 Regional Culture and Tradition 3 _____________________________ Sept. 22 (Thu) 10:30-12:15

B-4-1 The Regional Originalities of Kii Peninsura Traditional Houses, and The Geographical Distribution
Takayuki Hirata
Wakayama University, Japan

B-4-2 The Landscape Design of Imperial Palace and Emperor Mausoleum in Hue, Vietnam
Chie Rokutanda
Itsuko Hasegawa Architectural Atelier, Japan

B-4-3 Tradition in transition, modernity in question: A Case study of Historic Building Fu-Hsin Mansion, Fujian Province, China
Hsiao Chien Kao¹, Cong Hua Lin¹, Pao Ning Yin² and Wai Huang¹
¹ Fujian University of Technology, China, ² National Taiwan University of Art, Taiwan

B-4-4 The methods and techniques for preserving and regenerating historic buildings in Shanghai
Lian Liu
Tongji University, China

B-4-5 Studies on Development and Color of Tibetan Palace Architecture
Chang Ding¹ and Ming Tang²
¹ China University of Mining and Technology, China, ² University of Cincinnati, USA

B-4-6 Discontinued Pillars: the Adaptability of Water Stilt House at Kuin River, Banjarmasin, South Borneo, Indonesia
Yenny Gunawan, Sherin Oktaria, M. Arief F. Fauzan and Mira Hasyati
Parahyangan Catholic University, Indonesia

B-4-7 Regeneration Design for Indoor Physical Environment Improvement of Vernacular Dwellings in Southwest China
Zhi Zhuang, Yan Li, Chuangwei Li and Hai Ye
Tongji University, China
B-5 Conservation and Revitalization 1 _____________________________ Sept. 22 (Thu) 8:30-10:15

B-5-1 Architectural Strategy of the Regeneration of Longfusi Traditional Community in Beijing
Linan Liu, Liang Peng and Lian Liu
Beijing University of Civil Engineering and Architecture, China

B-5-2 A Traditional-Modern House entering into the old Castle Town
Ryota Shimizu, Yasuo Nagai, Junichiro Matsumoto and Kuniaki Ito
1 TIS Partners, 2 Yamagata University, 3 J.Matsumoto Architectural Office, 4 Tohoku University, 5 K. ITO Architectural Office, Japan

B-5-3 Comparison Study of Architectural Heritage Conservation Mechanism between China and India
Xihui Wang, Wei Dong and Yun Song
Southeast University, China

B-5-4 The Architectural Heritage Preservation In Terms of Architecture Anthropology ——Research On the Award Winning Project of Chinese UNESCO Asia Pacific Cultural Heritage Protection
Yan Zhang
Southeast University, China

B-5-5 Significance of Sub-marginality of Asiatic Ancient Civilizations Underlying Cultural Heritage in Angkor, Cambodia, Sri Lanka, Hue, Vietnam and Japan
Takeshi Nakagawa
Museum Meiji-Mura, Japan

B-5-6 A Study on the Strategy of Sustainable Development of Jinjiang's Wooden Settlement Building in Changbai Mountain
Di Qin and Yiqiao Lu
Changchun Institute of Technology, China

B-5-7 Remains of Gyeongbokgung Palace: from the Japanese invasion of Korea in 1592 until Reconstruction by King Gojong in 1865
Hansol Lim
Institute of Historical Architecture and Technology, Korea

B-6 Conservation and Revitalization 2 ____________________________ Sept. 22 (Thu) 10:30-12:15

B-6-1 Developing Strategy Analysis of Tableland Villages in Gully Region of Loess Plateau during the Construction of New Socialist Countryside ----- Taking Shaanxi Province as An Example
Tao Zhang, Qinian Hu, Hiroatsu Fukuda and Dian Zhou
1 The University of Kitakyushu, Japan, 2 Xi`an Jiaotong University, China

B-6-2 Discussion on the protection of traditional villages theory based on the theory of organic
Haoyu Wang, Changchun Tang and Fei Yang
Changsha University of Science and Technology, China

B-6-3 Feasibility study of traditional village's protection strategies and actions in China's urbanization
Xu Ding
University of Chinese Academy sciences, China

B-6-4 A Multi-Professional Design Portfolio ——Searching for New Models of village Renewal and Development in China
Beisi Jia and Yan Jin
1 The University of Hang Kang, 2 Beijing Institute of Fashion Technology, China

B-6-5 The Study on the Strategy of Protection and Development of the Northeast Minority Villages Based on Ecological Theory
Liu Jiuju, Lang Liang and Hao Zijian
Dalian University of Technology, China

B-6-6 Research on Protection Plan and Utilization of Modern Buildings in the Fragrant Hill in Beijing
Juan Zhang, Fan Fu and Lei Wang
North China University of Technology, China

B-6-7 Living Heritage via the 'ecomuseum ideal’ versus lifeless heritage via the 'Mosquito Hall’ approach? The cases of heritage management and sustainable development in a Chinese peri-rural village
Jie Han, Gerard Corsane, Shaosen Wang, Liangliang Wang, Suyu Li and Yumin Cai
1 Xiamen University, China, 2 Newcastle University, UK

B-7 Architect 1 _________________________________________________ Sept. 22 (Thu) 8:30-10:15

B-7-1 On the Eve of Expo ’70: The Japan Pavilion and Environment Art at the 1967 Montreal Expo
Yasutaka Tsuji
Japan Women's University, Japan
B-7-2 A Study on the Hans Hollein’s Concept of ‘difference’ and ‘disjunctive synthesis’ in his Architecture on the basis of Heterogeneous Urbanism of Vienna
Tae Young Ha and Young Min Koo
University of INHA, Korea

B-7-3 The Technological View of Tendenza Theoretical Contribution to Architecture of Carlo Aymonino and Aldo Rossi
Yuji Katagiri
University of Tokyo, Japan

B-7-4 The Study of Sino-Korean Tributary Overland Route and the Geographical Position of Towns in Liaoyang Province in Ming Dynasty Based on Geographic Information System
Qi Xi and Jianfei Dong
Harbin Institute of Technology, China

B-7-5 Study on the early stages of Concrete Block Houses in Okinawa - Focused on the Design of Hisao NAKAZA -
Haruno Kinjo1, Nayatat Tonmitr2, Toru Irie1 and Nobuyuki Ogura1
1 University of Ryukyus, Japan, 2 Khon Kaen University, Thailand

B-7-6 The Future for Thailand Vocational Schools Project 1965-70 by Junzo Sakakura
Waeovichian Abhichartvorapan and Kenji Watanabe
Tokai University, Japan

B-7-7 The Method of Renovating Older Apartment Buildings: Finding a Way to Shared Living A Case Study of SOCIAL APARTMENT NAKANOSHIMA in Sapporo, Japan
Ryo Masuoka1 and Shingo Suekane2
1 Kyoto Arts and Crafts University, 2 Kobe University, Japan

B-8 Architect 2 ________________________________________________ Sept. 22 (Thu) 10:30-12:15

B-8-1 Study on Architectural Design Methods of Dong Dayou in 1930s
Yi Qu and Fangxing Li
Northeastern University, China

B-8-2 Study on the Architectural Transformation of China in the Early 20th Century—Tingpao Yang’s Design of the National Central Stadium
Rui Guo and Tsuneo Ishikawa
Maebashi Institute of Technology, Japan

B-8-3 Geometric Composition in the Plan and Elevation of F.L.Wright Residence
Hiroshi Minami and Masahiro Takasago
Wakayama University, Japan

B-8-4 On a Method of Spatial Composition of Esters House
Masahiro Takasago
Wakayama University, Japan

B-8-5 Title: Interpretation of Modern Tan Kah Kee's Campus Planning and Design Concept from The Correspondence Historical Data
Zhihong Chen, Ximing Li and Yubing Zhao
Huaqiao University, China

B-8-6 The Discussion about Biotechnic/que: Frederick Kiesler’s Criticism of London Zoo
Takahiko Kanemaki
The University of Tokyo, Japan

B-8-7 Modernism in modern Chinese architecture (part I) An analysis about the introduction, criticism and re-evaluation of Mies-van-der-Rohe in modern Chinese architecture
Jill Z. Wagner-Meng
Tohoku University, Japan

B-9 Modern and Colonial 1 _______________________________________ Sept. 22 (Thu) 8:30-10:15

B-9-1 The Research of the different Buildings' Styles in Commander Zhang's Mansion
Jing Ha1 and Qiang Liu2
1 Shenyang Jianzhu University, 2 Shenyang Yuyingzao Architecture and Urban Design Limited Company, China

B-9-2 Contents Concerned with the Repair of Wooden Pillars in Yingzao fashi
Hui Li
Nara National Research Institute for Cultural Properties, Japan

B-9-3 Transition of the Wood Painting and the Color on De Forest Hall as a History of Modern Architecture
Noriko Koresasawa1, Yoshiko Shimadzu2, Shigeru Kubodera1, Shunichi Nomura1 and Hiroshi Adachi3
1 Japan Women's University, 2 National Museum of Japanese History, 3 Historical Research Institute for Architectural Decoration Technology, 4 Tohoku University, 5 Kobe University, Japan
B-9-4 A Study On History And Construction Method Of The 3rd Naval Factory In Maizuru Part 1: History and Details Of The Factory
Masahiro Watabe¹, Yuriko Nakano² and Goki Takaoka¹
¹ National Institute of Technology, Maizuru College, ² Maizuru Municipal Office, Japan

B-9-5 A Study On History And Construction Method Of The 3rd Naval Factory In Maizuru Part 2: A Field Survey On The 22nd Factory
Goki Takaoka¹, Yuriko Nakano² and Masahiro Watabe¹
¹ National Institute of Technology, Maizuru College, ² Maizuru Municipal Office, Japan

B-9-6 Estimation of Thickness of Concrete Structures using the Impact Echo Method and Ultrasonic Pulse Velocity Method
Seonguk Hong, Seunghun Kim, Changsik Lee and Yongtaeg Lee
Hanbat National University, Korea

B-9-7 Historic Preservation towards a Critical Regionalism on Gil-ryoung Park's Buildings: The Hwashin Department Store and the No-soo Park house
Myengsoo Seo
University of Florida, USA

B-10 Modern and Colonial 2 _____________________________________ Sept. 22 (Thu) 10:30-12:15

B-10-1 The Construction of Museumizing in Colonial Cities: A Comparative Study of Singapore, Hong Kong, Taipei, Seoul
Shiowtze Lin
Fujian University of Technology, China

B-10-2 Whose is the Museum? A Case Study of The Imperial Tokyo Museum Competition in 1931
Mengfei Pan
University of Tokyo, Japan

B-10-3 Consideration on the urban process and space formation of the city of bantayan town (philippines)
Masaki Koto, Juan Ramon Jimenez Verdejo and Misao Kawai
University of Shiga Prefecture, Japan

B-10-4 Considerations on the origin, evolution and current state of Cavite fortified city
Juan Ramon Jimenez Verdejo¹ and Jesus Alberto Pulido Arcas²
¹ University of Shiga Prefecture, Japan, ² Universidad del Bio - Bio, Concepcion, Chile

B-10-5 A Comparative Study of Five-foot-way and Qilou in Guangzhou, Hong Kong and Singapore
Yu Chen
National University of Singapore, Singapore

B-10-6 The Meaning of Representation at Kraton Yogyakarta Influence of Foreign Style Through the Level of Sacredness
Ami Arfianti¹, Jose Prijomoto² and Purwanita Setijanti²
¹ Universitas Pembangunan Nasional Veteran Jawa Timur, ² Institut Teknologi Sepuluh Nopember (ITS) Surabaya, Indonesia

B-10-7 Current Conditions of Batchelor Memorial Hall, Museum of Faculty of Agriculture, Hokkaido University
Chieko Yanagihara, Takeo Ozawa and Satoru Kaku
Hokkaido University, Japan

B-11 Urban History 2 ___________________________________________ Sept. 22 (Thu) 13:30-15:15

B-11-1 16th Century Images of Japanese Architecture and Urban Space: Analisis of the letters from the Jesuit school of Alcala de Henares, Madrid
Adriana P. Higashino
National Institute of Technology, Akashi College, Japan

B-11-2 A Study on Spatial Formation and Transformation of Mount Wuyi Ancient Settlements
Zhao Chong and Zhang Ying
Fuzhou University, China

B-11-3 Philosophical Context of The Omihachiman-City.
Toshinobu Obaat¹²
¹ The University of Tokyo, ² Honda Motor Co., Ltd., Japan

B-11-4 Making a world harbour in Shanghai, 1908-1920
Yunlian Chen
University of Okayama, Japan

B-11-5 A Design Proposal for the interdependent global Collaborative Commons Within Urban Ghetto Generated by Cultural Mix
Seo-Jung Kim and Young-Min Koo
INHA University, Incheon, Korea
B-11-6  Historical transition of the Second Makishi public market and its site - Consideration for the planning and management of the three buildings -
Hiroyuki Miyagi and Toru Irie
University of the Ryukyus, Japan

B-11-7  The states and problems of housing developments in the suburbs of Paris
Daisuke Hosoi and Kosuke Matsubara
University of Tsukuba, Japan

B-12  Architectural History of Temple and Building  
Sept. 22 (Thu) 15:30-17:15

B-12-1  The Characteristics of Spatial Composition in Buddhist Temple Ruins: Focused on Central Asia and Xinjiang Uighur
Yuuka Nakamura and Shigeyuki Okazaki
Mukogawa Women's University, Japan

B-12-2  Size Comparison between Joseon Dynasty Temple’s 3x3 Kan Main Buddhist Sanctum Excavation Sites and the Extant Historic Buildings: Methods in Collecting Preliminary Data for Restoration of Excavation Site JuMiSa Geumdangji(舟尾寺 金堂址)
Whan Chul Kim and Dai Whan An
Yonsei University, Korea

B-12-3  Study on Korea’s Nakansana Temple(洛山寺) Restoration Project – Focusing on the criteria for application of an excavated site’s data
Jin Hong Park
Hanyang University, Korea

B-12-4  Foundation Stone Layout Patterns at the Ancient Korean Octacgonal Building Sites
Dai Whan An
Chungbuk National University, Korea

B-12-5  What Did Chinese Chuancha-fang Influence the Timber Architecture of East Asia
Tomohiro Suzuki
Nara National Research Institute for Cultural Properties, Japan

B-12-6  A Study on Site Plan of the Buddhist Stupa’s Building in Koryo Dynasty - Focused on temples between 11th- 12th century
Man Hong Park
University of Myongji, HanUl Research Institute of Culture Heritage, Korea

B-12-7  A Study on the Red Blinds(朱簾) of the Palace Playacting Stage in the Late Joseon Era
Jin-Young Seok and Dong-Soo Han
Hanyang University, Korea

B-13  Regional Culture and Tradition 4  
Sept. 22 (Thu) 13:30-15:15

B-13-1  Research on Landscape Design in Traditional Villages Based on Native-oriented Land Memories -- Take Liruo Village in Zhejiang Province as Case
Kaiye Chen, Jie Wang, Sishen Wang and Sangsang Chen
Zhejiang University, China

B-13-2  The Continuation and Variation of Urban Culture under Respecting Environment - A Case Study of Zhu Xian Zhen in Kaifeng City
Ke Feng1, Wei Wang2,3 and Xiao Feng4
1 Tianjin University, 2 XAUAT, 3 North National University, 4 Henan University, 5 Yanshan University, China

B-13-3  Research on the traditional settlement form based on Fractal Theory -- A case study of Gaoyi Village
Ming Ma and Qing Liu
Inner Mongolia University of Science and Technology, China

B-13-4  Research on strategies for regeneration of war heritage sites based on urban catalyst theory
Zhanou Zhang1 and Jianfei Chen2
1 Harbin Institute of Technology, 2 Architecture Design and Research Institute of HIT, China

B-13-5  Urban implantation in rural China: three representative works on rural construction in ancient villages, Zhejiang
Zhouyan Wu1 and Li Guan2
1 University of Tokyo, 2 Waseda University, Japan

B-13-6  Analysis of Traditional Villages' Space amid Tourism Development and Study on Commercial Layout Optimizing Strategies Take the World Cultural Heritage Anhui Hongcun for Example
Xia Sun1, Zao Li1, Min Gao3 and Daren Wang1
1 Hefei University of Technology, 2 Shandong Tongyuan Design Limited Company, China
B-13-7 An integrated approach to rural revitalization via restoring ecological system and reshaping historic landscape: a case study of Qingjiao Village of Xiamen, China
Jie Han, Yali Gao, Wencan Huang, Liangliang Wang, Suyu Li and Shaosen Wang
Xiamen University, China

B-14 Regional Culture and Tradition 5 ____________________________ Sept. 22 (Thu) 15:30-17:15

B-14-1 Preservation Report of MATSUGAOKA Silkworm House Compound
Kuniaki Ito, Tadahisa Sakai, Masahiro Onuma and Masaaki Tokairin
1Tohoku University, 2Chido Museum, Tsuruoka, 3Tohoku Institute of Technology, 4Tokairin Appraisal, Japan

B-14-2 A Study on the architecture of cattle barns of Iriki fumoto village in Kagoshima
Susumu Mizuta and Mitsuyoshi Tsuchida
1Hiroshima University, 2Kagoshima University, Japan

B-14-3 Study on vernacular longhouses of Yancun village in costal area of Zhejiang Province, China
Tianxin Zhang
Peking University, China

B-14-4 Transformation and Typology of Indo-Europeeschen Architectuur Stijl as Historical Building in Braga, Bandung, Indonesia
Santoni
University of Pelita Harapan, Indonesia

B-14-5 Neo-Vernacular Architecture Practices in Rural Construction during the Last Decade in China
Simiao Li and Lu Feng Zhang
University of Chinese Academy of Sciences, China

B-14-6 Sustainability of Moklen Ethnic House: A Case Study in Tubpla Village in Phang Nga Province, Southern Thailand
Monsinee Attavanich and Hirohide Kobayashi
Kyoto University, Japan

B-14-7 A Study on Architectural Diversity of Mosques in Heilongjiang Province under the Perspective of Culture Transmission
Yanhan Zhu and Yan Wang
Harbin Institute of Technology, China

B-15 Conservation and Revitalization 3 ____________________________ Sept. 22 (Thu) 13:30-15:15

B-15-1 Study on the Reuse of Chinese National Central University Craft Practice Field Restoration Project
Shanghong Ai and Zhe Liu
Southeast University, China

B-15-2 Disappearing Unique Vernacular Houses in Rural Villages in Trabzon, Turkey
Elif Berna Var and Hirohide Kobayashi
Kyoto University, Japan

B-15-3 Preserving the Traditional Knowledge Systems and Craftsmanship to Preserve the Heritages: Lessons from the Japanese Conservation of Buddhist Temples and Shinto Shrines for the Ethiopian Orthodox Church Architecture Conservation
Ephrem Telele Woldegiorgis, Takeo Ozawa and Satoru Kaku
Hokkaido University, Japan

B-15-5 Evaluation for Revitalization of Industrial Cultural Heritage of the Japanese Navy Fuel Plant in Taiwan
Chiao-Yun Fan, Jia-Hao Tu and Chuang-Hung Lin
National United University, Taiwan

B-15-6 The current situation and problems of existing housing: A case survey in Dalian
Qiong Zhang, Yue Fan, Xiaxue Jin and Ning Zhang
Dalian University of Technology, China

B-15-7 Characteristics of opening of pitting made of larch panel according to heating by conveyor type microwave heating device
Cheul-Woo Park and Nam-Gi Lim
1Isone-Industry Research Institute, 2University of Tongmyong, Korea

B-16 Conservation and Revitalization 4 ____________________________ Sept. 22 (Thu) 15:30-17:15

B-16-1 The Research on the Historic Urban Landscape Approach of Kulangsui
Yi Qian and Qiang Liu
North China University of Technology, China
B-16-2 A Compromise Approach to the Historic Quarter Conversation Planning: A Case Study of Hangzhou Qiaoxi Quarter
Fu Lan
Southeast University, China

B-16-3 Exploring the cultural value of historic zone based on architecture picture book: taking Taiping Street of Changsha as an example
Qing Gao and Qian Wang
Southeast University, China

B-16-4 The contemporary architectural aesthetic practice of Chinese traditional brick material - Reconstruction of Historic Zones and Building in the South of Nanjing
Lei Ao
Southeast University, China

B-16-5 Considerations on the principle of redevelop and the realsituation of xuannan district of the old outer city in beijing (china)
Haoyuan Cheng¹, Misao Kawai¹ and Shuji Funo²
¹ University of Shiga Prefecture, ² Nihon University, Japan

B-16-6 Approaches to Preservation Districts for Groups of Historic Buildings by Hakodate City Government
Yuya Goto, Takeo Ozawa and Satoru Kaku
Hokkaido University, Japan

B-16-7 Divided people, and the voices therein - Community awareness of conservation to the area which is on the verge of miscarrying development projects for heritage landscape management
Hwa-Yeon Lee
Seoul National University, Korea

B-17 Architectural Theory 1 _____________________________________ Sept. 22 (Thu) 13:30-15:15

B-17-1 Re-imaginariness of the city
Young Min Koo and Sang-II Park
University of Incheon, Korea

B-17-2 A Design Proposal for Restoring the Historic Downtown in Seoul as a Theater of Memory
Won Pyo Jeon and Young-Min Koo
Inha University of Incheon, Korea

B-17-3 Duality in Drawing – Potential of discursive drawing responding to complex city –
Katsushi Goto and Vishwa Shroff
Independent Professional, Japan

B-17-4 The idea of dwelling : gender and sacred spaces for chinese moslem and chinese non-moslem families in jakarta
Hendra Siwi Samsu, Yandi Andri Yatmo and Paramita Atmodiwirjo
Universitas Indonesia, Indonesia

B-17-5 Encounter Between Oblique and Perspective In The Late Joseon Dynasty
Hoyoung Kim
Georgia Institute of Technology, USA

B-17-6 Studies on Chinese Islamic Architecture Designated as National-Level Cultural Relics Preservation Units
Li Tao and Yukimasa Yamada
Tokyo Metropolitan University, Japan

B-17-7 A study on the relationship of street and architectural space in terms of Assemblage concept
Seung-Koo Jo and Chan-Hui Kim
TongMyong University, Korea

B-18 Architectural Theory 2 _____________________________________ Sept. 22 (Thu) 15:30-17:15

B-18-1 The Roles of Foreign Experts in the Cambodian Modern Movement of 1950-60s: Focusing on the works of Vann Molyvann
Masaaki Iwamoto
Kyushu University, Japan

B-18-2 Assessment of Modern Architecture from a Cultural-Theoretic Perspective
Shintaro Yao
Kansai University, Japan

B-18-3 A Study on the Localization of Corbusien Architectural Language Appeared in Jose Oubrie's Work - focused on the Architectural Characteristics of Miller House
Gang-Moo Huh and Young-Min Koo
Inha University, Korea
B-18-4 Time Constructing Space
Susilo Kusdiwanggo¹ and Lioni Beatrik Tobing²
¹ Universitas Brawijaya, Indonesia, ² University for Peace, Costa Rica

B-18-5 Exploring chromatic architecture and built environment for next generation
Masataka Fukui
Architectural Institute of Japan, Japan

B-18-6 Complexity and Integration of Non-square Residential Works in Japanese Contemporary Architecture
Yoko Taguchi¹, Takuya Moriyama¹ and Yuusuke Karasawa²
¹ Saga University, Japan, ² Tokyo University of Science, Japan

B-18-7 A study on The construction of Placeness through Synesthesia Image in contemporary architecture
Seung-Koo Jo and Ga-Young Kim
TongMyong University, Korea

B-19 Modern and Colonial

B-19-1 Protection Strategy of External Environment around Lineal Heritage: A Case of Chinese Eastern Railway, China
Zhang Luchen and Shao Long
Harbin Institute of Technology, China

B-19-2 The diversity research of the Orthodox Church along Chinese Eastern Railway
Qingchao Zhao, Daping Liu and Shuming Zhang
Harbin Institute of Technology, China

B-19-3 A study on public buildings of chinese eastern railway
Fangxi Liu, Daping Liu and Qi Li
University of Harbin, China

B-19-4 Analysis on Space Combination Form of Military Buildings of Chinese Eastern Railway
Nan Zhou and Yan Wang
Harbin Institute of Technology, China

B-19-5 Chinese Participation in The Development of British Concession in Tianjin, China
Yichen Liu¹ and Masaki Fujikawa²
¹ Toyohashi University of Technology, ² University of Tsukuba, Japan

B-19-6 The Interpretation of the Architectural Heritage along the Chinese Eastern Railway based on Modular Design
Wei Guo and Daping Liu
Harbin Institute of Technology, China

B-19-7 Plural Symbiosis—A Study on the Diversity of Modern Architecture in HENGDAOHEZI of the Middle East Railway
Min Zong, Daping Liu and ShiXun Wang
Harbin Institute of Technology, University of Harbin, China

B-20 Regional Culture and Tradition

B-20-1 Comparative Research of Aboriginal Faith and Chinese Religion’s Influence on Taiwanese Traditional Architecture
Jianfei Dong and Yan Li
Harbin Institute of Technology, China

B-20-2 Does typology analyze the city? Or does the city define the typology? - Typologies in Italy and Japan-
Kenta Matsui
University of Tokyo, Japan

B-20-3 ‘Picture Book of City’ As a Strategy for Urban Cultural Heritage Research
Haohao Xu¹, Wei Wang², Yuhao Tu² and Jiangde Liu²
¹ Southeast University, ² Hunan University, China

B-20-4 Evolvement of Architectural Types in China’s Rural Area: Case Study on Xiamei Village in Fujian Province
Siqi Li¹ and Ying Zou²
¹ University of Tokyo, Japan, ² Tianjin University, China

B-20-5 A Study on the Construction Process of Butokuden and their Role in Taiwan under Japanese Rule
Hiromi Nishikawa
Okayama Prefectural University, Japan

B-20-6 Research of Diversity and Uniqueness of Parks in Harbin Under the Region Culture Field of Vision
Chen Chen and Daping Liu
Harbin Institute of Technology, China
B-20-7 The characteristics of space composition in Minami-Maruyama district, Sapporo - An investigation of the development process and the relationship with crossroads and paths in city blocks-
Satoru Kaku¹, Takeo Ozawa¹ and Kaho Miyoshi²
¹Hokkaido University, ²Eight-Japan Engineering Consultant Inc., Japan

B-21 Texture Material/Earthquake ________________________________ Sept. 22 (Thu) 15:30-17:15

B-21-1 Namsan and the defence of the silla capital - An Investigation of Korean Urban Defensive Systems in the Three Kingdoms Period
Peter Armstrong
University of Sydney, Australia

B-21-2 A Speculation about the Source of Quadripartite Arched Dome in Ancient China
Yongli Xu
Suzhou University of Science and Technology, China

B-21-3 The Mechanisms in the Organic Zone of the Ming Great Wall
Xixuan Fan¹ and Yukun Zhang²
¹Dalian University of Technology, ²Tianjin University, China

B-21-4 The report on the damaged situation of historical buildings in Khokana, Nepal after the 2015 earthquake
Tomoko Mori¹ and Mitsuhiro Miyamoto²
¹The University of Tokyo, ²Kagawa University, Japan

B-21-5 Evaluation of the cross-section shape of Nubian vault used in New Gourna
Masayuki Kawasaki
Wakayama University, Japan

B-21-6 Result of the desalination of washed house's woods by the Great East Japan Earthquake
Toshiei Tsukidate
Yukigunibunka Laboratory, Japan

B-21-7 Wall Development according to the Floor Level Rising to Ground in Korean Ancient Dwelling Sites: Focus on Baekje Hexagon-Planned Pit Dwelling and Pillar-Wall Structure
Sung-Ho Lee and Dong-Soo Han
Hanyang University, Korea

C-1 Passive Techniques: Vernacular Architecture ________________ Sept. 21 (Wed) 13:30-15:15

C-1-1 A study on various characteristics of New Hanok - Focus on thermal performance and roof tile color -
Chang Rae Lee, Hee Gang Kim, Myoung Souk Yeo and Kwang Woo Kim
Seoul Nation University, Korea

C-1-2 Field Investigation of Indoor Thermal Environments in Traditional Chinese Shophouses with Courtyards in Hot-Humid Climate of Malaysia
Mohd Azuan Zakaria, Seiji Abe and Tetsu Kubota
Hiroshima University, Japan

C-1-3 Field Investigation on Indoor Thermal Environments of Dutch Colonial Buildings in Bandung, Indonesia
Muhammad Nur Fajri Alfata, Takashi Hirose and Tetsu Kubota
Hiroshima University, Japan

C-1-4 Research on the Climate Responding Mode of Interface Opening in Suzhou's Vernacular Dwellings
Tianyi Min
Southeast University, China

C-1-5 Eco-Cost Life Cycle Assessment of Traditional Housing in Indonesia: The Case of West Java
Siswanti Zaraida, Dewi Larasati and Romi Bramantyo M
Institute of Technology and Science Bandung, Indonesia

C-1-6 The architectural “Passive Design”, the environmental adaptability Of the human body and the green building
Baoliang Sun
SCG No.5 Co.LTD. Group Design Institute of Shanghai, China

C-2 Passive Solar and Daylighting ________________________________ Sept. 21 (Wed) 15:30-17:15

C-2-1 Development of Fixed Daylighting System Consisting of Two Types of Non-Imaging Lighting Devices
Hikaru Kobayashi¹, Yuki Shibuya¹ and Katsuhiro Sasaki²
¹Tohoku University, ²Takenaka Corporation, Japan

C-2-2 A Study on Natural Lighting Design in Green Rural Residential Buildings in Severe Cold Areas in Northeast China
Meng Zhen, Cheng Sun, Nan Xia and Qi Dong
Harbin Institute of Technology, China
C-2-3 Use "mirror reflection" device to reduce building heating energy consumption and save residential construction land
ZhengWang Wu and YangQiang Wu
North China University of Technology, China

C-2-4 Passive "mirror reflection" Building Energy-saving Experiment
Yanqiang Wu and Zhengwang Wu
North China University of Technology, China

C-2-5 Research of the Green Rural Housing Passive Techniques in the Cold Region of China
Qing Yin, Ge Yu, Tianyu Xi and Cheng Sun
Harbin Institute of Technology, China

C-2-6 On Climate Buffering Function of Sunspace in Rural Dwellings in Cold Region
Qi Zhen1 and Jianfei Chen2
1 Harbin Institute of Technology, 2 Architecture Design and Research Institute of HIT, China

C-2-7 The Research and Practice of the Solar Energy Utilization of Small Railway Passenger Stations in High Altitude Areas of Southwestern China
Xue Wang and Min Li
Southwest Jiaotong University, China

C-2-8 The techno-economic viability of façade integrated solar thermal systems
Kiin Choi
Korea Research Institute of Eco-Environmental Architecture, Korea

C-3 Building Energy
Sept. 21 (Wed) 13:30-15:15

C-3-1 Energy Consumption analysis survey of Kansai University
Chika Sugimura and Hiroshi Miyazaki
Kansai University, Japan

C-3-2 The relationship between energy consumption and related factors affecting heating and cooling
Kwon Sook Park and Sei Yong Kim
Korea University, Korea

C-3-3 The research on the low carbon rural house design in northeast china with severe cold climate zones
Cheng Sun and Qi Dong
Harbin Institute of Technology, China

C-3-4 A Study on Early Design Stage Window-to-Wall-Ratio on Heating and Cooling Energy Consumption of Multi-Rise Buildings in Korea
Myung Sik Lee and Binyam Sediso
Dongguk University, Korea

C-3-5 Evaluation of Energy-saving & Water-saving Benefits and Calculation of Carbon Emission of Prefabricated Building at Construction Stage ---Take a Prefabricated Housing Community in Beijing for Example
Yanyan Gao1, Decai Wang1, Zhi Zheng2, Weimin Yao3 and Zao Li3
1 Hefei University of Technology, 2 Design and Research Co., Ltd., 3 Sino-ocean Group Holding Limited, China

C-3-6 The Feasibility Study and Technology Selection of the Nearly Zero-Energy Housing Design in Yangtze River Delta
Feng Deng, Hongwei Tan, Zhi Zhuang and Yilin Li
Tongji University of Shanghai, China

C-3-7 Current Status of Existing Building Assessment (Inspection & Diagnosis) of Korea and Japan
Kwanjong Lee1, Yuchia Liao1, Ryo Sanuki1, Makoto Tsunoda1 and Sangjun Yi1
1 Tokyo Metropolitan University, 2 Kanto Gakuin University, Japan

C-3-8 Verifying the applicability and practicality of a proposed soil temperature estimation equation
Akihide Kawakita and Hiroshi Miyazaki
Kansai University, Japan

C-4 Building Envelope and Roof Techniques
Sept. 21 (Wed) 15:30-17:15

C-4-1 Influence of properties of a building surface vent layer on thermal performance
Aiko Ishida and Hiroshi Miyazaki
Kansai University, Japan

C-4-2 A Study on the Impact of Thermal Transmittance of Building Envelope Elements for Energy Load Reduction in Multi- Rise Residential Buildings in Korea
Binyam Sediso and Myung Sik Lee
Dongguk University, Korea
C-4-3 Cooling performance of spraying water automatically on the roof surface for thermal comfort in buildings in manado
Jefrey Ignatius Kindangen
University of Sam Ratulangi, Manado, Indonesia

C-4-4 Research on Improvement Measures for External Wall Insulation Technology of Village Buildings in Cold Forest Areas
Pengfei Du¹ and Benchen Fu²
¹ Harbin Institute of Technology, ² Architecture Design and Research Institute of HIT, China

C-4-5 A Scale Model Test in Accordance with Color of the Surface Finishing of PCM Cool Roof Systems
In Sung Kang, Young Kwon Yang and Jin Chul Park
Chung-Ang University, Korea

C-4-6 The Application of Passive House to the High-pollution Environment
Meijie Liu and Yibing Xue
Shandong Jianzhu University, China

C-5 Urban Landscape 1
Sept. 21 (Wed) 13:30-15:15

C-5-1 Development and evaluation of urban landscape simulation system using game engine
Yasuo Kawai
Bunkyo University, Japan

C-5-2 Townscape impressions with various roadside trees
Junyu Meng and Yoshihiro Kametani
Kansai University, Japan

C-5-3 The Applied Research on Urban Environmental Color Planning in Transformation of Commercial Areas in Old Cities--Based on the Transformation of the Commercial Area in the University Town of Hefei
Yongjie Li, Xiang Gao, Yuebin Li and Zao Li
Hefei University of Technology, China

C-5-4 Use of 3D Archives of Houses and Settlements for Permanent Memory-2 cases of 3D data attached with metafile for preservation of recordswith 4 trial cases of application toward future usage-
Hideyuki Kobayashi
National Institute for Land and Infrastructure Management, Japan

Siqi Wu and Xin Yang
North China University of Technology, China

C-5-6 Application of Green Landscape Using Recycled Materials on Exterior Surface of Building: A New Perspective in Bangladesh
Shamsad Firdous¹, Shah Alam Badshah², Bikash Saud Ansary³ and Sung Kyun Kim³
¹ Seoul National University, Korea, ² Hamdard University Bangladesh (HUB), Bangladesh, ³ A+ AA Architects, Dhaka, Bangladesh

C-5-7 The Diversification Design of the Railway Station Squares in Tourism Cities of China: A Case Study of the Railway Station Square Design of Mount Emei in Sichuan Province
Mao Lin, Zhongwei Shen and Xue Wang
Southwest Jiaotong University, China

C-5-8 Beijing Garden Expo venue after use after use evaluation (POE) study -A Case Study of Traditional Exhibition Park
Li Zhang
North China University of Technology, China

C-6 Urban Landscape 2
Sept. 21 (Wed) 15:30-17:15

C-6-1 The Sustainable Expression of Ecological Concept in the Urban Landscape Design
Jun Yan Dong¹,², Ke Chao Li¹, Yue Nan Xing¹, Teng Long Tan¹ and Chuanpeng Ma
¹ Changchun Institute of Technology, China, ² Harbin Institute of Technology, China, ³ Bangkokk Khonburi University, Thailand

C-6-2 The pitfalls of integrated approach of eco-city development and its possible solutions
Wenjun Hu¹, Zao Li¹ and Li Yu²
¹ Hefei University of Technology, China, ² Cardiff University, UK

C-6-3 Capability of Social Media in Structuring Collective Memory for Future Urban Design Project
Sushardjanti Felasari¹ and M. Sani Rooyehsanah²
¹ Universitas Atma Jaya Yogyakarta, ² Universitas Gadjah Mada, Yogyakarta, Indonesia
C-6-4 The analysis on satisfaction-impacted factors of urban brownfield landscape renovation: on the basis of Reasoned Action Theory
Lei Zhang, Fei Lian and Yuning Cheng
1 Southeast University and Harbin University of Science And Technology, 2 Harbin Institute of Technology, China

C-6-5 A Study on the Coupling Relationship between Landscape Form and Spatial Behavior Based on Dynamic Visualization
Jie Ma and Yuning Cheng
Southeast University, China

C-6-6 The design and management method to encourage citizens participation in Genbei River restoration project
Kyoko Yamaga, Koh Yamamoto and Ilji Cheong
1 Kanagawa University, 2 JR Tokai Real Estate Co.Ltd., Japan

C-6-7 The citizen organization participation and design method for Nature-oriented River Projects of Suwon River-Focused on Suwon River Restoration Project -
Ilji Cheong and Kyoko Yamaga
Kanagawa University, Japan

C-7 Design for Shrinking Society _________________________________Sept. 21 (Wed) 13:30-15:15

C-7-1 Study on future land use planning with effective sea breeze use: Case study in Kanagawa Prefecture, Japan
Makoto Yokoyama, Kaoru Matsuo, Takahiro Tanaka and Satoru Sadohara
1 Hiroshima University, 2 Yokohama National University, Japan

C-7-2 Strategic Development of Green Infrastructure Implementation in Shrinking Cities
Takanori Fukuoka and Sadahisa Kato
1 Kobe University, 2 Okayama University, Japan

C-7-3 A Study on Transition of Building Environment in Village area based on the trend of population decline - A case study on K village in Nara Prefecture, Japan
Takashi Ikejiri
Kindai University, Japan

C-7-4 Focus on the future of the Green Infrastructure System Review for Sustainable Development in China
Li Peng and Bin Li
North China University of Technology, China

C-7-5 Residents’ Use, Evaluation and Site-factor Preference of Urban Wild Green Space in Sapporo, Japan
Min Jiang and Feng Lu
1 Chongqing University, China, 2 Hokkaido University, Japan

C-7-6 Effect of holiday arrangement on the yearly total power supply Study on the environmental adaptation society towards a low carbon society
Emiko Kuno and Hiroshi Miyazaki
1 Kobe University, 2 Kansai University, Japan

C-7-7 Ecological Architecture Concept in Campus Building in Indonesia
Jarwa Prasetya Sihandoko
Indonesia Islamic University, Indonesia

C-8 Water Landscape and Urban Energy __________________________Sept. 21 (Wed) 15:30-17:15

C-8-1 Situation Analysis on Lake Landscape Preservation in Japanese Cities
Li Lin, Riken Homma and Kazuhisa Iki
Kumamoto University, Japan

C-8-2 The Relation between Distribution of Creeks and Water Utilization System on the Tsukushi Plain
Noriyoshi Teramoto, Akira Ushijima and Mahito Nakazono
University of Yamaguchi, Japan

C-8-3 Research of Waterfront Cities Ecological Design Methods Based on Hydrological Process Simulation: Take Laodong Bay New District for Example
Jingcheng Yuan, Pin Wang and Shanshan Xiong
Shenyang Jianzhu University, China

C-8-4 Research on Ecological Land pattern of Liaobin Waterfront Area in Panjin based on the Simulation of Water Flow Process
Jingcheng Yuan and Shanshan Xiong
University of Shenyang Jianzhu, China
C-8-5 A study on validity of physical quantitative indexes of river landscape evaluation - To provide foundation for urban planning
Rui Jiang¹, Daisaku Nishina¹, Jung-In Suh² and Takahiro Tanaka¹
¹ Hiroshima University, Japan; ² Yeungnam University, Korea

C-8-6 Power saving effect in Kanto region after the Great East Japan Earthquake - A proposal of temperature influence removal method using temperature sensitivity curve -
Hiroshi Miyazaki
Kansai University, Japan

C-8-7 Similarity in power supply temperature sensitivity using standardized power supply data
Takahiro Mtsukuri and Hiroshi Miyazaki
Kansai University, Japan

C-9 Active Techniques Sept. 22 (Thu) 13:30-15:15

C-9-1 Investigation on the Thermal Performance of a Novel Ventilated Photovoltaic (PV) Facade for High-rise Buildings
Yilin Li, Zhi Zhuang, Hongwei Tan and Feng Deng
Tongji University, China

C-9-2 Perimeter Energy System applied for Transparent Organic Photovoltaics
Naoki Yoshimoto¹, Yuko Suenaga¹, Kishio Hidaka², Kazuya Mitsuji² and Yasuo Nagai²
¹ Hitachi, Ltd., ² Yamagata University, Japan

C-9-3 Control of Cold Water Temperature at the Outlet of an Adsorption Refrigerator Driven by Low-temperature Waste Heat
Tetsuo Yamashita¹, Makoto Koganei¹, Kyosuke Hiyama², Takeshi Kondo³ and Ryutaro Kubo¹
¹ Yamaguchi University, ² Meiji University, ³ Nikken Sekkei Research Institute, Japan

C-9-4 Alternative Water Sources for Non Potable Uses for the public housing in Singapore
Hyeong Ill Kim and Xu Qi Lee
University of Singapore, Singapore

C-9-5 Numerical simulation for suitable location of ground source heat pump system in Korea
Sangmu Bae and Yujin Nam
Pusan National University, Korea

C-10 Building Operation and Post Assessment Sept. 22 (Thu) 15:30-17:15

C-10-1 A method for green residential building retrofit design according to user’s preference
Zhuoran Wang
Tianjin University, Tianjin, China

C-10-2 Exploration and application of green technology in underground space in China
Chenyue Hong and Zhongwei Shen
Southwest Jiaotong University, China

C-10-3 Multi-objective optimization of office building form considering energy efficiency and daylighting performance in severe cold climates
Yunsong Han and Cheng Sun
Harbin Institute of Technology, China

C-10-4 Study on the Design Method for the Museum Architecture Surface with Low Energy Consumption in Cold Regions in Response to the Climate
Wenqian Liu¹ and Hongyuan Mei¹²
¹ Harbin Institute of Technology, ² The Architectural Design and Research Institute of HIT, China

C-10-5 Research on the Energy-saving Design for Office Buildings’ Portico Space in Cold Regions Based on the Simulation of Microclimate
Yajun Wang and Jianfei Chen
Harbin Institute of Technology, China

C-10-6 Study on the Institution regarding Wood Utilization in Construction in Minato Ward, Japan
Akito Doi¹ and Tetsu Masaki²
¹ Yamashita Sekkei inc., ² Ariake National College of Technology, Japan

C-10-7 Study of Non Sintered Cement Mortar Using Nanoslag and Alkali Activator
Jae Won Her and Nam Gi Lim
TongMyong University, Korea

C-10-8 Defects Prevention through Enhancing-maintainability on Building Façade
Jaeseob Lee
Dongguk University, Korea
C-11 Indoor Air and Thermal Comfort ____________________________ Sept. 22 (Thu) 13:30-15:15

C-11-1 Study on Bake-out with Dilution-ventilation for Removal of Indoor Air Pollutions
Yang Lv\(^1\), Haifeng Wang\(^1\), Shanshan Wei\(^1\), Xiaoxiao Wu\(^2\) and Jing Liu\(^1\)
\(^1\)Dalian University of Technology, \(^2\)Dalian Municipal Bureau of land Resources and Housing, \(^3\)Harbin Institute of Technology, China

C-11-2 Study on the Planning for the Fragrant and Healthy Indoor Air in the Natural Wood Interior Finish
Genki Iizumi
Chiba Institute of Technology, Japan

C-11-3 IEQ Conditions in Creating Healing Environment of Healthcare Facility: A Case of Hospital in Tropical Region
Sutida Sattayakorn, Masayuki Ichinose and Rumiko Sasaki
Tokyo Metropolitan University, Japan

C-11-4 Organic Material for Indoor Humidity Control in Humid Tropical Climate
Putri Herlia Pramitasari\(^1\), Surjamanto Wonorahardjo\(^2\) and F. X. Nugroho Soelamid\(^2\)
\(^1\)Institut Teknologi Nasional Malang, \(^2\)Institut Teknologi Bandung, Indonesia

C-11-5 Formaldehyde Concentration Measurements of Pathological Examination Room
Koichi Ikeda\(^1\), Hiroki Iwama\(^2\), Torahiko Saeki\(^2\), Tślihiro Anai\(^2\), Huapeng Tang\(^2\) and Shuto Enomoto\(^1\)
\(^1\)Nihon University, \(^2\)Shin Nippon Air Technologies Co., Ltd, Japan

C-11-6 Observational study of winter thermal comfort in an office building in Vietnam
Eriko Tokuda, DongGiang Nguyen, Masayuki Ichinose and Rumiko Sasaki
Tokyo Metropolitan University, Japan

C-12 Passive Techniques: Comprehensive Analysis _______________________ Sept. 22 (Thu) 15:30-17:15

C-12-1 Green technology prioritization for retrofitting a dilapidated housing
Sung-Woo Kim, Kyoung-Eun Yoo, Geun-Hee Kim, Sung-Wan Kim and Kyung-Hoi Lee
Korean Research Institute of Eco Environmental Architect, Korea

C-12-2 A Design Approach towards Energy-efficiency Upgrades of Residential Building Façade Refurbishment
Guopeng Li, Yue Fan and Qidong Zhu
Dalian University of Technology, China

C-12-3 Full-scale experiments on energy-saving modification for Malaysian urban houses
Tetsu Kubota\(^1\), Mohd Azuan Zakaria\(^1\), Makoto Ohashi\(^2\), Kanao Daiki\(^2\), Doris Hooi Chyee Toec\(^2\) and Mohd Hamdan Ahmad\(^2\)
\(^1\)Hiroshima University, Japan, \(^2\)Universiti Teknologi Malaysia, Malaysia

C-12-4 The Energy-saving Design of Box-type Activities House
Baoxin Zhang and Xueyi Zhao
Shandong Jianzhu University, China

C-12-5 Green Building Strategy and Integrated Design - Practice of Huahui Research and Design Center
Xinghua Hu, Quifang Tang, Mingqi Lai, Danhong Zhu and Jun Xia
Huahui Engineering Design Group CO.LTD, China

C-12-6 Passive house
Yulia Kononova
Harbin Institute of Technology, China

C-12-7 Open, Shared, Sustainable ----Architectural Design Under the Green Life Style
Yiqing Guan
Hefei University of Technology, China

C-12-8 Energy-Saving Analysis of New Rural Living Architecture in Chongqing Area
Yu Feng
Chongqing University, China

C-13 Urban Heat Island ________________________________________ Sept. 22 (Thu) 15:30-17:15

C-13-1 Properties of cool airflow from urban green
Hiroshi Miyazaki and Tomohiro Minato
Kansai University, Japan

C-13-2 Urban Greening for Urban Heat Island Mitigation in the Future Hanoi City
Andhang Rakhmat Trihamdan\(^1\), Kento Sumida\(^1\), Tetsu Kubota\(^1\), Han Soo Lee\(^1\) and Tran Thi Thu Phuong\(^2\)
\(^1\)Hiroshima University, Japan, \(^2\)Vietnam Institute of Urban and Rural Planning, Vietnam

C-13-3 The evaluation method of the thermal radiation in an urban canyon
Kotaro Nishimura, Hiroshi Miyazaki and Yukiharu Yamagami
Kansai University, Japan
C-13-4 Research on the Influence of Piloti Ratio on Wind Environment in Residential Blocks by Coupled Simulation Method
Tianyu Xi¹, Hong Jin¹, Jianhua Ding² and Yu Zhang³
¹Harbin Institute of Technology, ²Tsinghua University, China

C-13-5 A CFD Analysis of Wall-Effect Building Groups in a Curved Layout: A Study in Sha Tin, Hong Kong
He Yi and Schnabel Marc Aurel
Victoria University of Wellington, New Zealand

C-13-6 Probability Analysis Estimation of Annual Maximum Monthly Rainfall in Bangladesh
Md Ashraful Alam, Kazuo Emura, Craig Farnham and Jihui Yuan
Osaka City University, Japan

D-1 Compact City _____________________________________________ Sept. 21 (Wed) 13:30-15:15
D-1-1 Side setback areas vs. backyards in residential zones in Japan and Iran – A comparative study of behavior and perceptions towards setback spaces based on morphological dissimilarities, case studies of Shiraz and Sapporo
Amir Shojai¹, Kaveh Fattahi² and Suguru Mori³
¹Hokkaido University, Japan, ²Shiraz University, Iran

D-1-2 Mapping volumetric urban space: a critical development analysis of multi-level morphology of high-dense cities
Yingyi Zhang and Marc Aurel Schnabel
Victoria University of Wellington, New Zealand

D-1-3 Proposal of the DIY Leasing Scheme for Utilizing the Unused Facilities - Case Studies in Central Area Wakayama city -
Hiroki Ogawa¹ and Madoka Chosokabe²
¹Tokushima University, ²Tottori University, Japan

D-1-4 Compact City 2.0: High Density Urban Settlement in the Era of Information and Communication Technology
M. Sani Roychansyah¹ and Sushardjanti Felasari²
¹Universitas Gadjah Mada, ²Universitas Atma Jaya Yogyakarta, Indonesia

D-1-5 Urban Shrinkage simulations for improve a decision making in population decrease era.
Shusuke Inachi and Ai Sakaki
Setsunan University, Japan

D-1-6 Research on the Differential Characteristics of Spatial Compactness in Old Industrial Area
Jiang Chang, Fan Yang and Yuanyuan Deng
China University of Mining and Technology

D-1-7 Research into Compact & 3D Form Design of Underground Space in Chongqing CBD
Yuan Hong¹ and Cui Xu²
¹Southwest Jiao Tong University, China, ²Kyushu university, Japan

D-2 Urban Regeneration ________________________________________Sept. 21 (Wed) 15:30-17:15
D-2-1 Regenerating Urban Industrial Heritage during Industrial Transformation -A Case Study of Nanjing, China
Rong Xiao, Jianqiang Yang and Zhe Li
Southeast University, China

D-2-2 Contextual Urban Regeneration, Approaches to Tackling Decline in Pittsburgh and Kitakyushu
Fernando Ortiz-Moya
University of Nottingham Ningbo, China

D-2-3 Decontamination and Reconstruction in 12 Fukushima Evacuation Municipalities
Kota Kawasaki
Fukushima University, Japan

D-2-4 A Study on the Analysis of Baby-boomer’s Needs-based Plan of Age-friendly medical facilities for Neighborhood Regeneration
Soim Park
University of Yonsei, Korea

D-2-5 New trend of Urban renewal in Beijing's core area
Nianzu Yi¹, Lizao Liu² and Maoyan Xu³
¹Tsinghua University, ²Beijing Municipal Institute of City Planning&Design, China

D-2-6 The Role of Multiple Stakeholders and their Collaboration in Post-disaster Housing Recovery —Different Approaches in Hurricane Katrina (2005) and Great East Japan Earthquake (2011)—
Sachi Suzuki, Yasuaki Onoda and Haruka Tsukuda
Tohoku University, Japan

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D-2-7 What Happened after the Severe Accident of Nuclear Power Station? - Case study of Recovery Plan and Actions for Fukushima, Minami-Soma City
Aya Kubota¹, Akinobu Masumura², Misa Lee³, Yoshino Ota¹, Sakura Kawata¹, Takeshi Kuromoto¹ and Takuya Hagiwara¹
¹ University of Tokyo, ² Odaka Recovery Design Center, Japan

D-3 Urban Design and Guideline 1 ________________________________ Sept. 21 (Wed) 13:30-15:15

D-3-1 City-scale Water Sensitive Design Guideline case study towards advancing sustainable stormwater management
Takanori Fukuoka¹, Maki Ryu², Mai Yoshitake³, Atsuko Suzuki¹ and Natsuki Morii¹
¹ Kobe University, ² Delft University of Technology, ³ Tokyo University, ⁴ Architectural Design Institute, Japan

D-3-2 A Study on design method of intensive blocks based on evaluation system
Bing Qu and Jiawei Leng
Southeast University, China

D-3-3 urban color characteristics of cold city harbin
Xu Lu, Han Qin, Shan Guan and Jing Ha
Shenyang Jianzhu University, China

D-3-4 Landscape Infrastructure Approaches in the Integrated Planning of the Supporting System of Heritage Corridor
Xian Ji and Long Shao
Harbin Institute of Technology, China

D-3-5 The Visual Absorption Capability of the Covered Bridge -- A Case Study of the Banqiao Dragon Bridge
Yu-Shan Lai and Chuang-Hung Lin
National United University, Taiwan

D-3-6 Research of Urban Villages in Chinese Cities from the Viewpoint of Biological Analogy
Xinpenge Wang and Nobuaki Furuya
Waseda University, Japan

D-3-7 What Makes People Walk More - Urban Center Space Features Related to Walkability in Harbin, China
Yang Ye, Huang Meng and Hongyuan Mei
Harbin Institute of Technology, China

D-4 Urban Design and Guideline 2 ________________________________ Sept. 21 (Wed) 15:30-17:15

D-4-1 Research on the Transformation Models of Shanghai Shikumen Lane Neighborhoods Under the Philosophy of Symbiosis: Mediation, Transposition, Preservation, Reposition and Juxtaposition
Xiang Zhou and Aya Kubota
University of Tokyo, Japan

D-4-2 A Study on Regeneration Model of Old Cities Based on Community Livelihoodand Culture - A Case Study of Xiamen Yingping Area
Yingqing Fei and Junpeng Lin
School of Architecture HuaQiao University, China

D-4-3 Research on the street environment optimization of high latitude cold city in China under the background of spread of PM2.5--take Harbin as an example
Qing Yuan and Yang Qu
Harbin Institute of Technology, China

D-4-4 Study on Approaches to Communication Design in Cultivating the Civic Pride at International Sports Events
Zhang Yi¹, Yoshitsugu Morita¹ and Ma Wajun¹
¹ Guangdong University of Technology, China, ² Kyushu University, Japan

D-4-5 Stormwater Management at a National Scale under the Asian Monsoon Climate: Case Study of Singapore’s ABC Waters Design Guidelines
Sadahisa Kato¹ and Takanori Fukuoka²
¹ Okayama University, ² Kobe University, Japan

D-4-6 Learning From Toronto - Reference significance of Toronto urban design guidelines in the development of urban design guidelines in China
Xiaomin Du
China Architecture Design Group, China

D-4-7 Large Scale Urban Design Practice Focusing on Sustainability - A Case Study of Qingdao Blue Silicon Valley Core Area, Shandong, China
Tetsuya Yaguchi
Waseda University, Japan
D-5 Public Space and Building 1 _________________________________ Sept. 21 (Wed) 13:30-15:15

D-5-1 Angular Segment Analysis to support the Reinvention of Religious spaces in Chiang Mai historic town
Nattasit Srinurak, Nobuo Mishima and Janjira Sukwai
Saga University, Japan

D-5-2 Integrated Development of Public Space of Large Railway Station’s Catchment Area
Wangyang Gui
Southeast University, China

D-5-3 Urban Park As An Alternative Site For The Urban Community Activities
Hari Hajaruddin Siregar
Institute Technology of Bandung, Indonesia

D-5-4 Rethinking Public Space in Special Characteristics of Public Space at Janti, Yogyakarta, Indonesia
Ibtihajar Mangputri Al-Ihsan, Andri Oktoviolis and Yulia Pratiwi
Islamic University of Indonesia, Indonesia

D-5-5 Study On The Model Of The Coupling Relationship Between The Rail Transit Station Building And Its Surrounding Urban Space In Winter City
Yu Du and Jianfei Chen
Harbin Institute of Technology, China

D-5-6 The Investigation of the Public Bicycle Rental Service Condition in Beijing — A case study of Shijingshan District
Lei Wang, Jiangmin Qiu and Juan Zhang
North China University of Technology, China

D-5-7 Strategy Addressing The Climate Barrier In Urban Development In Hot Humid Country
Mochamad Donny Koeniawan
Institute of Technology, Bandung, Indonesia

D-6 Public Space and Building 2 _________________________________ Sept. 21 (Wed) 15:30-17:15

D-6-1 Art-oriented reutilization & conversion of closed school facility in rural area-Case study of Echigo-Tsumari Art Triennale in Niigata prefecture, Japan
Hongwei Hsiao, Tetsuo Kidokoro and Fumihiko Seta
The University of Tokyo, Japan

D-6-2 Study about the long-term management in the Nagakute Southern Land Readjustment Project
Ryo Sawai
Tamano Consultants Co Ltd, Japan

D-6-3 Walkable City to Support Heritage Tourism Case Study: Bogor Heritage City, Indonesia
Yasmina Azriani Sudirman, Siti Luzviminda Harum Pratiwi Setyawan and Cherish Nurul Ainy
1 Seoul National University, Korea, 2 Bandung Institute of Technology, Indonesia

D-6-4 Children’s Social Interaction Movement Patterns in Informal Environment as Investigation for Requirement of Children’s Playground in Yogyakarta Urban Area
Muhammad Hardyan Prastyanto, Nyssa Iga Putri and Yulia Pratiwi
Islamic University of Indonesia, Indonesia

D-6-5 Factors Affecting the Establishment of Car Free Day as the Presence of Public Urban Space
Putra Prawira Medhiynyah
Bandung Institute of Technology, Indonesia

D-6-6 Cooling Mist Fan Effect on Thermal Comfort in Outdoor Spaces on Hot Summer Days
Craig Farnham, Lili Zhang, Kazuo Emura, Jihui Yuan and Alam Md Ashraful
Osaka City University, Japan

D-6-7 Process of Public Space Function Transformation Case Study: Pedestrian Park in Mahakam Riverbank, Indonesia
Yulia Pratiwi
Islamic University of Indonesia, Indonesia

D-7 Public Space and Building 3 _________________________________ Sept. 22 (Thu) 8:30-10:15

D-7-1 Application research on the suitability of mobile buildings in the regeneration of urban public space in China
Hongzhou He and Guoxin Wu
Tongji University, China

D-7-2 A study on the social effects and the morphological character of markets in Tokyo - Through a comparison with the implementation model of street markets in London-
Mio Suzuki, Releka Harã, Maho Sugiyama and Jorge Almazan
1 Public Place Partners, 2 Keio University, 3 Hulic Co. LTD, Japan
D-7-3 The Visitor’s perception of Sunday Morning Market (Sunmor)’s qualities and the influence factors
Puja Kurniawan
Bandung Institute of Technology, Indonesia

D-7-4 The Presence of Motorcycle Club Subcultures in Public Space in Bandung City
Nurhijrah Bakri
Bandung Institute of Technology, Indonesia

D-7-5 A Generic City in Question? Rem Koolhaas and the Formation of Taipei Performing Arts Centre
Pao-Ning Yin
National Taiwan University of Art, Taiwan

D-7-6 A National Fitness Survey and Accessibility Measures of Urban Public Space of Nangang District
Dake Wei¹, Chunyan Guo² and Peng Luo³
¹ Harbin Institute of Technology, ² Northeast Forestry University, China

D-7-7 The Influence of Public Markets in the Urban Form of the Cities of Cebu Island, Philippines
Troy Dino Elizaga
University of San Carlos, Philippines

D-8 Livable Community 1

D-8-1 Cooperative Housing’s Multi-dimensions and Its Feasibility in China
Ruiqi Dou
Southeast University, China

D-8-2 Organized Shared Homes Toward the Improvement of Kost: a Case of Self-organized Rental Housing in Indonesia
Diah W. Wulandari and Sugurru Mori
Hokkaido University, Japan

D-8-3 State comparison of resident self-management in municipal house in Edamitsu area, Yahatahigashi ward, Kitakyushu-city: Research on operation method of resident self-management in public house The 1st report
Yohei Sadohara, Tsutomo Shiga and Hiromi Shimakita
Kyushu University, Japan

D-8-4 Resident Self-management Method in the Hiramatsu Housing Complex, Kitakyushu city Municipal House: Research on Operation Method of Resident Self-management in Public House The 2nd report
Yohei Sadohara, Tsutomo Shiga and Hiromi Shimakita
Kyushu University, Japan

D-8-5 Making the urban environment dementia-therapeutic: design guidelines in neighborhoods
Fei Lian, Yang Chen, Yuanhong Ma and Minghui Xue
Harbin Institute of Technology, China

D-8-6 Research on the strategy of urban community elderly facilities planning based on the spatial distribution of the elderly population
Yishan Xu, Dian Zhou, Zhiwei Qiu and Zhe Li
Xi’an Jiaotong University, China

D-8-7 Restoration of Oshima-Gyokyo Document after Tsunami 2011 & Building Process of the Library for them
Tsutomu Shigemura¹ and Tomohiro Mikasa²
¹ Kanagawa University/Kobe University, ² Nishinippon Institute of Technology, Japan

D-9 Livable Community 2

D-9-1 Context Integration: A Design of Modern Middle School with Traditional
Hong Wang¹, Mu Guo² and Zhou Yu¹
¹ Zhejiang University of Technology, China, ² Bluetown Property Construction Management Group Co.Ltd, China,
³ University of Illinois at Urbana-Champaign, USA

D-9-2 A Study on Open Hierarchical Renovation Strategies of Urban Gated Communities in the View of Active Ageing
Han Li¹, Benchen Fu¹ and Yipeng Sun²
¹ Harbin Institute of Technology, China, ² Harbin Public Security Bureau

D-9-3 Study on Jinbo Island urban design based on climate analysis
Jingcheng Yuan¹, Wenfei Li² and Shi Chen¹
¹ Shenyang Jianzhu University, ² Xinjianda Urban Planning and Design Co., Ltd. in Shenyang, China

D-9-4 Originating Urban Climate Change Adaptation Planning Guidepost: Urban Landscape Sustainability Framework (ULSF), Quezon City, Philippines
Tabassam Raza¹, Kuo Fan-Sheng² and Joe F. Peralta¹
¹ Philippines School of Business Administration, Manila, Philippines, ² Taiwan University of Science and Technology, Taiwan, ³ Philippine School of Business Administration, Manila, Philippines
D-9-6 Research On Morphology And Adaptability Of New-type Rural Community In Transition Period —— A Case Study Of Handan Area In Hebei, China
Jiayi Zhao, Shifen Li and Wei Sun
Dalian University of Technology, China

D-9-7 Re-Neili: Art, Green and New Communities Revive the Old Community
Wan-Wen Huang and Kuan-Hua Chen
Yuan Ze University, Taiwan

D-10 Livable Community 3
Sept. 22 (Thu) 8:30-10:15

D-10-1 Open spaces, Two dimensional breathing outlets of a residential neighborhood.
Manjari Rai
Jagannath University, India

D-10-3 Preliminary study on the evaluation of vitality in existing settlements
Li Dong, Yue Fan and Eryuan Zhang
Dalian University of Technology, China

D-10-4 Characteristics influencing leisurely physical activity in community outdoor space: Results from a Harbin representative survey
Cuina Zhang and Lingling Li
Harbin Institute of Technology, China

D-10-5 Practice and Perspective of Existing Housing Environment Regeneration Design in the North of China
Ying Gao, Yue Fan, Ning Zhang and Qiong Zhang
Dalian University of Technology, China

D-10-6 Exploration on regeneration mode of sub-healthy space in middle-aged community at post-urban age: Example of Huizhongli community regeneration design in Beijing
Minghui Xue1, Fei Lian1,2 and Jia Li2
1 Harbin Institute of Technology, 2 Northeast Agricultural University, China

D-10-7 The Role of the Community Learning and Development Center in the Diverse Community
Sayaka Fujii
University of Tsukuba, Japan

D-11 Participation and Education
Sept. 22 (Thu) 10:30-12:15

D-11-1 Evaluation of Pedestrian’s Profile, Activity, and Environment in the City of Bandar Lampung, Indonesia
Fritz Akhmad Nuzir1, Haris Murwadi1,2 and Bart Dewancker2
1 Bandar Lampung University, Indonesia, 2 The University of Kitakyushu, Japan

D-11-2 Developing the Aesthetic Ecology Concept in Participatory Planning of Rural Areas in Bumiaji-Batu City, Indonesia
Dina Poerwoningsih, Imam Santoso and Erna Winansih
University of Merdeka, Indonesia

D-11-3 Education about Disaster Reduction by Sharing Flood Experiences
Mari Tanaka
Gunma University, Japan

D-11-4 Community’s Housing Types and Residents Risk Perceptions Case study of Northern Thailand Earthquakes in 2014
Titaya Sararit
Chiangmai University, Thailand

D-11-5 A study on the Cooperation between Local Community and Combined Elementary and Junior High School From the View Point Of Utilization of Local Resources - In a case of Kyoto Ohara Gakuin-
Risa Mori and Chie Murosaki
Nara Women's University, Japan

D-11-6 Bottom-up Participatory Design Process for Practical City Development Action : The Case of Khon Kaen Province Affordable Local Smart City Project
Nayatat Tonmitr1, Rawee Hanpachern2 and Nobuyuki Ogura1
1 University of the Ryukyus, Japan, 2 Khon Kaen University (KKU), Thailand

D-11-7 Discovery Learning Model with a Scientific Approach in Understanding The Concept of Energy Efficiency for Students of Vocational High School in Indonesia
Usep Surahman, Mokhamad Syaorn Barliana and Johar Maknun
Universitas Pendidikan Indonesia, Indonesia
D-12 Sustainable Communities 1 _________________________________ Sept. 22 (Thu) 8:30-10:15

D-12-1 The Tentative plan of Urban Mobility Residence model
Xiongquan Ou and Guoxin Wu
Tong ji University, China

D-12-2 A structural understanding of the management system of condominiums in the French metropolitan area
Hana Sekikawa and Mitsuo Takada
1 Okayama University; 2 Kyoto University, Japan

D-12-3 Incremental Constructing Analysis Method based on the Construction of Sustainable Community —-A Case Study of Phoenix Mountain
Lifan Feng
Southwest Jiaotong University, China

D-12-4 A Study on Self-sustaining Community Resilience through Local Asset Management - A Case Study of Local Community Association "Shinjyo Aigoukai" in Shinjyo town of Tanabe city, Wakayama, Japan
Miki Yoshizumi
Kyoto University, Japan

D-12-5 A Study on the Characteristics of a typical residential building in northern China in different periods
Qidong Zhu, Yue Fan and Guopeng Li
Dalian University of Technology, China

D-12-6 Exploring the barriers to the use and potential of timber for housing construction in China
Qinian Hu, Tao Zhang and Dewancker Bart
University of Kitakyushu, Japan

D-12-7 The Residential Area Changes by the Type of Housing and Ownership Household
Ji Hyuk Jang
Seoul National University, Korea

D-13 Sustainable Communities 2 _________________________________ Sept. 22 (Thu) 10:30-12:15

D-13-1 Key Sustainable Strategies of Urban Design Framework for Suburbanisation: A Proposal of Transit Oriented Community in Southeast Queensland, Australia
Jizhong Shao
Nanjing Tech University, China

D-13-2 Research on the emergency place and/or evacuation shelters designated by local governments including Buddhist temples
Takeshi Sasaki and Hideaki Katsumata
Tokyo City University, Japan

D-13-3 Sustainable Community-based Tourism Development: a Case Study of the Setu Rawa Besar, Jakarta
Wenjun Hu,1,2, Weiyi Cui,1,2, Qihtao Li,1,2, Siqi Huang,1,2, Li Yu,1 and Zao Li,1
1 Cardiff University; 2 Hefei University of Technology, China

D-13-4 Exploring the Architecture Construction Mode of Slow Life Blocks in Leisure City ---A Case Study of Slow Life Blocks in Hangzhou
Ziliang Yin, Xiao Li, Lingying Ye and Miao Hong
Zhejiang Agriculture and Forestry University, China

D-13-5 Moving to Higher Ground and Building Public Restoration Houses in Ogatsu, Ishinomaki, Miyagi Prefecture
Shintaro Yamanaka,1, Mitsuhiko Sat01 and Yosuke Fujimoto1
1 Nihon University; 2 Asano Institute of Technology, Japan

D-13-6 The Evolution and Sustainability of Community Development in the Build-up Area in Kobe City -The Evolution and Evaluation of Regional Community Development in Rural and Urban Area -
Tomohiro Okada, Juichi Yamazaki and Hidefumi Yamaguchi
Kobe University, Japan

D-13-7 Study on the Development and Characteristics of Rural Community Plan in Kobe City -The Evolution and Evaluation of Regional Community Development in Rural and Urban Area-
Ken Ieiri, Juichi Yamazaki, Hidefumi Yamaguchi, Tomohiro Hino and Sakura Okano
Kobe University, Japan

D-14 Living Environment 1 _________________________________ Sept. 22 (Thu) 13:30-15:15

D-14-1 The Strategies of Reforming Enclosed Residential Area to Block System --- A Case Study of the Western Area of Dinghuili Residential Area
Yu Ting Han and Zheng Wang Wu
North China University of Technology, China
D-14-2 Influences and Characteristics of urban main roads on urban park greenland – A Case Study of Beijing
Jiajia Duan and Xin Yang
North China University of Technology, China

D-14-3 Preliminary study of Beijing Hopsca outdoor environment
Yaxing Shi and Xiaobo Wang
North China University Of Technolog, China

D-14-4 Study on the Impact of Songhua River on Thermal Environment in Summer in Harbin City
Zheming Liu1, Xuoding Zhao1,2 and Hong Jin1
1 Harbin Institute of Technology, China, 2 University of Hull, UK

D-14-5 Study of town development using existing features of the town A study on environmental improvement in low-class urban areas of Asia
Hiroyuki Yoshioka1, Masashi Sogabe2, Miki Zhang3 and Akira Hasegawa
1 Kanagawa University, 2 Matidesign, 3 Akira Hasegawa Architecture Studio, Japan

D-14-6 Urban Planning and Development in Damascus Metropolitan Area in the Syrian Arab Republic Based on the International Cooperation- A Case Study of Ghouta Road Area, Rural Damascus, Syria
Maysoun Sawaan and Kosuke Matsubara
University of Tsukuba, Japan

D-14-7 Study on the Space Optimization of Beijing Jianwai Street Based on the Theory of Automobile Exhaust Pollution in Urban Street Canyons
Yi Liu and Lei Wang
North China University of Technology, China

D-15 Living Environment 2 _____________________________________ Sept. 22 (Thu) 15:30-17:15

D-15-1 Social Housing Development in Indonesia: Challenges in the Practice of Community-Based Housing Provision for Low-Income Residents
Deazaskia Prihutami and Hirohide Kobayashi
Kyoto University, Japan

D-15-2 Consideration about Utilization of Vacant Houses for Tsunami Disaster Prevention in the small fishing village in Wakayama prefecture, Japan
Yuuri Kawasaki and Shusuke Inachi
Setsunan University, Japan

D-15-3 Research on Urban Housing Pattern from Feminist Perspective — — a case study of Suzhou
Chaochao Chu and Chao Luo
Suzhou University of Science and Technology, China

D-15-4 Analysis of actual conditions on a seasonal second residential base in Ulaanbaatar city
Suguru Mori1, Solongo Jamiyandorj2 and Rie Nomura1
1 Hokkaido University, 2 YKK AP Inc., Japan

D-15-5 A Comparison Study in Repair Process of Communal Area in Residential Housing Between Japan and China
Xueqi Cui1, Yuchia Liao1, Makoto Tsunoda1, Sangjun Yi1 and Ryo Sanuki1
1 Tokyo Metropolitan University, 2 Kanto Gakuin University, Japan

D-15-6 Dwelling Style and Agricultural Succession in a Suburban Farm Village : A Case Study of O Rural Village in Kita Ward, Kobe City
Hidefumi Yamaguchi, Juichi Yamazaki and Aya Miyairi
Kobe University, Japan

D-15-7 Practice and Perspective of Existing Housing Environment Regeneration Design in the North of China
Ying Gao, Yue Fan, Ning Zhang and Qiong Zhang
Dalian University of Technology, China

D-16 Urban History 1 __________________________________________ Sept. 22 (Thu) 13:30-15:15

D-16-1 Wohnkomplexe in the 1930s USSR and 1950s North Korea by an East German Architect
Hideo Tomita
Kyushu Sangyo University, Japan

D-16-2 Autonomy of Architecture; Architecture of Autonomy
Katsushi Goto
Independent Professional, Japan

D-16-3 Theoretical Research Development of China’s Rural Planning
Xu Feng1,2
1 China Academy of Urban Planning & Design, 2 Tsinghua University, China
D-16-4 Integrated Analysis On The Cultural Landmarks Of A Chinese National Historical And Cultural City : Dose Recognition Degree Equate Aggregation Degree  
Min Yin¹, Yangjin Chen¹, Yueping Zhou¹, Guangzhou Li⁸ and Jiangan Xu⁹  
¹Nanjing University, ²Suzhou Planning & Design Research Institute CO.,LTD., Suzhou, ⁸China Design Group CO.,LTD., Nanjing, China

D-16-5 The Urban Space Represented in Sapporo Historical Maps  
Rena Kawai, Takeo Ozawa and Satoru Kaku  
Hokkaido University, Japan

D-16-6 A historical approach to the study of impact assessment of community design Through the analysis of the database of community design in Kobe in the modern period  
Kaoru Koshiro  
Kobe University, Japan

■ D-17 Urban History 2 ________________________________________ Sept. 22 (Thu) 15:30-17:15

D-17-1 A Study of the History of Urban Structure in Hanoi City  
Mai Trung Pham and Hiroshi Suziki  
University of Meijo, Japan

D-17-2 Ideal and Struggle: Reconstruction Planning in Hankou after Great Fire of the 1911 Revolution  
Xiaogeng Ren, Baihao Li, Theanh Dinh and Zhao Li  
Southeast University, China

D-17-3 Saigon and Hanoi: Research on Capital Planning Transformation of French colonial in Vietnam  
Theanh Dinh, Baihao Li and Xiaogeng Ren  
Southeast University, China

D-17-4 A study about a change in the city formation judged from the disaster history of the past in the case of the coastal area of south region of Mie prefecture in Japan  
Kenjiro Matsuura  
Chiba University, Japan

D-17-5 A Study on Formation of Dalat as a Hill Station - Focused on the Urban Plannings and these Implementations -  
Keigo Kubishiro and Yoshiyuki Yamana  
Tokyo University of Science, Japan

■ D-18 Design Survey ________________________________________ Sept. 22 (Thu) 13:30-15:15

D-18-1 Spatial Openness and Wall Perimeter as Practical Indices for Evaluating Quality of Open Spaces in Residential Areas – A comparison between Tehran and Tokyo  
Sepideh Payami Azad, Ryohei Morinaga and Hideki Kobayashi  
Chiba University, Japan

D-18-2 Study and Discovery on morphological characteristics of residential plots: based on a General Survey in Nanjing, China  
Qin Zhao  
China Architecture Design Group, China

D-18-3 A study on the dwelling style of the Gosichon in Korea -To focus on usage system and life pattern in Noryanggin Gosichon, in Seoul-  
Jaehyuk Jo and Shintaro Yamanaka  
Nihon University, Japan

D-18-4 Quantitative Research on the Structure of Historical Urban Tissue in Nanjing, China  
Lian Tang, Ziyu Tong and Wowo Ding  
Nanjing University, China

D-18-5 Urban fabric organization based on network theory  
Yan Xiao and Hui Sun  
Dalian University of Technology, China

D-18-6 The Outlook for the Future Change of the Historic Townscape Affected by 2015 Nepal Earthquake  
Yasushi Takeuchi¹ and Norio Maki²  
¹Tohoku Institute of Technology, ²Kyoto University, Japan

D-18-7 Study on the Self-organizing and Micro-renewal of Informal Urban Space of Urban Village in Guangzhou  
Xixi Chen and Xiangning Zhang  
Harbin Institute of Technology, China
D-19 Urban Fabric

D-19-1 Research on the National Fitness Facilities in Cold Regions Small-medium Cities- Taking Songyuan in Jilin Province, China for Example
Lingling Li and Qianli Guo
Harbin Institute of Technology, China

D-19-2 New Constructions in Historical Campus from the Perspective of Architectural Programming: Case Study and Practice
Zhang Qu1,2
1 East China Architectural Design & Research Institute Co., Ltd., 2 Tsinghua University, China

D-19-3 The Research on the Community Sport Activities Behavior Characteristics in Cold Region Based on VGI and GIS
Qi Guo1 and Hongyuan Mei2
1 Harbin Institute of Technology, 2 The Architectural Design and Research Institute of HIT, China

D-19-4 Residential Landscape Space Research Based on Quantitative Analysis
Xiaoguang Yang, Xufan Xu, Weiwei Chen and Jianming Su
Hefei University of Technology, China

D-19-5 A Comparison Of The Thoughts Of Dwelling Space from Students Majored in Architecture between China and Japan — Taking the Exchange Workshop by Hefei University Of Technology and Shibaura Institute Of Technology as An Example
Zihao Zheng and Jianming Su
Hefei University of Technology, China

D-19-6 The Comparison of Alleyway Between Japan and China: Taking Alleyways in Tokyo and South Part of the Yangtze River Area as an Example
Jinqi Li
The University of Tokyo, Japan

Haohao Xu1, Yuhao Tu2 and Jiangde Liu1
1 Southeast University, 2 Fanyi Studio, 3 Tongji University, China

E-1 Structural Experiment/Analysis

E-1-1 The Importance of Observation in the Development of Earthquake Engineering
Akenori Shibata
Tohoku University, Japan

E-1-2 Design Concept of Smart Green Structural System
Jae-Hyouk Choi, Jin-Hun An, Ju-Hee Kim, Meron W. Lemma and Daniel Y. Abebe
Chosun University, Korea

E-1-3 Loading tests of the sub-assemblages of the external frame using high-strength polymer cement mortar in beam-column joints for seismic retrofit
Tomohide Wakita1, Eiichi Inai1, Tomofusa Akita1, Takuya Kakihara2, Takanori Kawamoto2 and Junji Osaki2
1 University of Yamaguchi, 2 Ube Industries, Japan

E-1-4 Impact fracture behavior of concrete panel by projectile nose shape
Sangkyu Lee1, Hongseop Kim1, Minjae Son1 and Jeongsoo Nam2
1 Chungnam National University, Korea, 2 Tokyo Institute of Technology, Japan

E-1-5 Behavior of Buttress Retaining Wall with Relieving Platform
Sung-Moo Park and Gyeong-Hwa Mun
Yeungnam University, Korea

E-1-6 Evaluation of Residual Strength of Ultra High Strength Concrete Column at elevated Temperature
Eui-Chul Hwang, Gyu-Yong Kim, Gyeong-Cheol Choe and Min-Ho Yoon
Chungnam National University, Korea

E-1-7 A Study on the Reinforcement Effect of Buckling Member for Single-Layer Latticed Domes
Hwan-Mok Jung1, Seok-Ho Yoon1, Cheol Hwan Kim1, Kwan-Mok Yang1 and Dong-Woo Lee1
1 Kyungdong University, 2 Kyungpook National University, 3 I'ST Co., Ltd., Korea

E-2 Structural Design

E-2-1 Structural Design for Tall Damped Building with Irregularly-Shaped Plane and Elevation
Yasuhiro Yamashita, Soichiro Kushima, Yuichiro Okuno, Kazuto Nakahira and Taisei Morishita
Takenaka Corporation, Japan
E-2-2 Seismic Response of a Piled Raft Foundation with Grid-Form DMWs under Large Earthquake Load
Yoshimasa Shigeno, Kiyoshi Yamashita and Junji Hamada
Takenaka Corporation, Japan

E-2-3 The Design Concept of Steel Beam-to-Column Connections for Seismic Performance Improvement
Sang-Hoon Oh
Pusan National University, Korea

E-2-4 A Study on the Application of Surveillance Technology with Large bolt Axial Force of Nuclear Facilities
Jeong Su Ju¹, Seul Ki Hwang¹, Ji su Kang¹, Sung Mo Choi¹, Yong Pil Park² and Bu Kyu Kim¹
¹ University of Seoul, ² Adwon Structural Engineering, ³ SUH-HAN Architect & Engineers Inc., KOREA

E-2-5 Estimation of Shear Strength of Steel Fiber Reinforced Concrete Tied Columns
Jiwoong Choi and Changsik Choi
University of Hanyang, Korea

E-2-6 A Study on Pilot Transfer Systems Subjected to Axial Load
Yeonju Sim and Changsik Choi
University of Hanyang, Korea

E-2-7 Design Procedures of Reduced Link Section for Steel Eccentrically Braced Frames [Technical Notes]
Daniel Y. Abebe¹, Gyumyong Gwak¹, Sijeong Jeong¹, Jinwoo Kim² and Jeahyouk Choi¹
¹ Chosun University, Korea, ² Osaka University, Japan

E-3-1 Investigation of Retrofitting Methods for Historic Wooden Buildings in Taiwan
Wan-Ting Liu and Meng-Ting Tsai
National Taipei University of Technology, Taipei, Taiwan

E-3-2 Investigation of Steel-Wood Composite Beams in Historical Wooden Building Retrofitting
Tzu-Ling Hsu
National Taipei University of Technology, Taipei, Taiwan

E-3-3 Micro Tremor Measurement and Damage Investigation of Two Historical Pagodas in Patan
Kaori Fujita¹, Toshikazu Hanazato², Subedi Jishnu¹, Rajbhandari Suman¹ and Takahiro Toyoda¹
¹ The University of Tokyo, Japan, ² Mie University, Japan, ³ Center of Resilient Development, Nepal, ⁴ Pokhara University, Nepal

E-3-4 An examination for the seismic performance of a Concrete school building designed in 1973.
Mamoru Kawasaki and Tetsuya Ohmura
Tokyo City University, Japan

E-3-5 New Hybrid Strengthening Technology of Seismic Performance for Reinforced Concrete Exterior Beam-Column Joints
Gee Joo Ha¹, Dong Ryul Yi¹, Hyun Wook Kang² and Young Joo Ha²
¹ Kyungil University, ² Construction Technology & Policy Institute, Korea

E-3-6 Structural Performance of RC Beams Retrofitted PVA Fiber using the Blast Furnace Slag and Recycled Fine Aggregates
Gee Joo Ha¹, Dong Ryul Yi¹, Jae Hoon Ha² and Min Su Ha²
¹ Kyungil University, ² Construction Technology & Policy Institute, Korea

E-4-1 Experimental study on the properties of wooden rigid frame with structural plywood wall
Yoshio Sakamaki¹, Nobuyoshi Michiba¹, Keisuke Kagawa¹, Mayu Nakayama¹, Seiji Takanashi¹ and Yoshimitsu Ohashi¹
¹ Hoseplus Corporation, ² National Institute of Occupational Safety and Health, ³ Tokyo City University, Japan

E-4-2 Vibration Characteristics Evaluation of Traditional Timber Buildings with Large Eccentricity: Vibration Measurement and Eigenvalue Analysis on Gokokuji-Gekkouden
Takahiro Toyoda and Kaori Fujita
University of Tokyo, Japan

E-4-3 Numerical Study on the Application of Hybrid Timber Structure Systems in the Renovation of Aged Row Houses
Min-Min Hsu¹, Meng-Ting Tsai¹ and Chien-Chung Chen²
¹ National Taipei University of Technology, Taiwan, ² ACA SEKKEI LTD, Japan

E-4-4 Structural Design of Urban Wooden Structures Using New Fire-resistant Laminated Timbers
Kouji Fukumoto
TAKENAKA Corporation, Japan
E-4-5 Adaptive Design of Light-Frame-Wood Structure of Rural House in Northeast Forestry Areas
Xuesong Wang¹, Tiejun Li¹ and Daiyan Zhang¹
¹Harbin Institute of Technology, ²Architectural Design and Research Institute of HIT, China

E-4-6 Exploration on the Design of Light-weight Timber Structure in Small Holiday Building
Bai Xue, Zong Dexin and Xin Shang
Chongqing University, China
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