



## 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 Inoue<sup>1</sup>, Moe Kusano<sup>1</sup>, Tomoya Tsuji<sup>2</sup> and Jorge Almazan<sup>1</sup>  
<sup>1</sup>Keio University, <sup>2</sup>Obayashi 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 Mitani<sup>1</sup>, Tomohisa Hosoda<sup>2</sup>, Mahito Nakazono<sup>1</sup>, Akira Ushijima<sup>1</sup>, Reiko Shimokura<sup>3</sup> and Yumiko Fukuda<sup>4</sup>  
<sup>1</sup>Yamaguchi University, <sup>2</sup>National Institute of Technology, Yonago College, <sup>3</sup>National Institute of Technology, Kure College, <sup>4</sup>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 Irie<sup>1</sup> and Nayatat Tonmitr<sup>2</sup>  
<sup>1</sup>University of the Ryukyus, Japan, <sup>2</sup>Khon Kaen University (KKU), Thailand
- A-1-5 A Field Evaluation on Walking Environment focusing on Route No. 16 of Jeju Olle Trail**  
Kyeonghwa Byun<sup>1</sup>, Changgeun Yoo<sup>2</sup> and Jeong-Lim Lee<sup>3</sup>  
<sup>1</sup>Catholic Kwandong University, <sup>2</sup>Mokpo National University, <sup>3</sup>Jeju Tourism University, Korea
- A-1-6 Relationship of Urban Planning, Car and Architectural Form in Shintoshin, Naha**  
Yuki Morimoto<sup>1</sup> and Toru Irie<sup>2</sup>  
<sup>1</sup>Theater Architects Co.,Ltd., <sup>2</sup>University of the Ryukyus, Japan
- A-1-7 Methods of regional expression by the use of PCa in the buildings of Okinawa**  
Morihisa Shiroma<sup>1</sup> and Toru Irie<sup>2</sup>  
<sup>1</sup>KUNIKEN LTD., <sup>2</sup>University of the Ryukyus, Japan

### ■ A-2 Local Design 2 \_\_\_\_\_ Sept. 21 (Wed) 15:30-17:15

- A-2-1 Study on The Design and Forming Method for the new House of Parliament in Thailand.**  
Tatsunori Sato<sup>1</sup>, Piyarat Nanta<sup>2</sup>, Toru Irie<sup>1</sup> and Nobuyuki Ogura<sup>1</sup>  
<sup>1</sup>University of Ryukyus, Japan, <sup>2</sup>King Mongkut's Institute of Technology Ladkrabang, Thailand
- A-2-2 A study on Characteristic of Bungalow in Indian Tea Garden**  
Mamiko Miyahara<sup>1</sup> and Ayano Toki<sup>2</sup>  
<sup>1</sup>Japan Women's University, <sup>2</sup>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 He<sup>1</sup>, Tong Zhou<sup>1</sup> and Yong Ma<sup>2</sup>  
<sup>1</sup>Hubei Institute of Fine Arts, <sup>2</sup>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
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**A-3-3 The evacuation optimization of the large-scale Commercial Complex based on the space syntax**

Yuting Chen<sup>1</sup> and Teng Fei<sup>1</sup>

<sup>1</sup> Harbin Institute of Technology, <sup>2</sup> 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 Wang<sup>1</sup>, Zao Li<sup>1</sup>, Decai Wang<sup>1</sup>, Weiyi Cui<sup>1</sup> and Jingjing Zhang<sup>2</sup>

<sup>1</sup> Hefei University of Technology, <sup>2</sup> 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 Kurmiawan<sup>1,2</sup>

<sup>1</sup> Tohoku University, Japan, <sup>2</sup> University of Gadjah Mada, Indonesia

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■ **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 Nishizawa<sup>1</sup>, Hirotake Kanisawa<sup>1</sup>, Keito Yoshida<sup>2</sup> and Hiroyuki Funaki<sup>2</sup>

<sup>1</sup> Shibaura Institute of Technology, <sup>2</sup> Polytechnic University, Japan

**A-4-3 VR365-An advancement of building and environment Field Survey Method for the Collaborative Review Procedure**

Soo-Hoon Park<sup>1</sup> and Jaekyung Lee<sup>2</sup>

<sup>1</sup> Hanbat National University, <sup>2</sup> 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 Eonyong<sup>1</sup>, Youchang Cho<sup>1</sup> and Hanjong Jun<sup>2</sup>

<sup>1</sup> Korea Virtual Reality, <sup>2</sup> 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

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■ **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 Yamada<sup>1</sup> and Naoaki Furukawa<sup>2</sup>

<sup>1</sup> National Research Institute for Cultural Properties, Tokyo, <sup>2</sup> 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 -**

Akihiko Iwasa<sup>1</sup>, Akira Sato<sup>2</sup>, Shiori Suzawa<sup>3</sup> and Satoshi Boda<sup>4</sup>

<sup>1</sup> Hosei University, <sup>2</sup> Freelance, <sup>3</sup> Tokyo University, <sup>4</sup> 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

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**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 Deniki 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 Chengjian 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 Experimented in Temporary Buildings**  
Mo Li<sup>1</sup>, Xin Sui<sup>2</sup> and Ying Gao<sup>1</sup>  
<sup>1</sup>City Institute, Dalian University of Technology, <sup>2</sup>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<sup>1</sup>, Jeason Cho<sup>2</sup>, Ju Yeon Kim<sup>1</sup> and Jun su Park<sup>1</sup>  
<sup>1</sup>Soongsil University, <sup>2</sup>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*

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■ **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, Hidefumi 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 Shimokura<sup>1</sup>, Kaname Yanagisawa<sup>3</sup>, Mai Morita<sup>2</sup> and Youngju Yoo<sup>2</sup>  
<sup>1</sup>National Institute of Technology, <sup>2</sup>Kure College, <sup>3</sup>Chiba University, <sup>3</sup>Okamura Corporation, Japan
- A-9-5 Observations on Work Space Characteristics for Effective Smart Work**  
Hyunhee Lee<sup>1</sup> and Sanghoe Koo<sup>2</sup>  
<sup>1</sup>Gachon University, <sup>2</sup>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-**  
Teppei 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 Isomura<sup>1</sup>, Osamu Tsukihashi<sup>1</sup> and Takayuki Tomobuchi<sup>2</sup>  
<sup>1</sup>Kobe University, <sup>2</sup>Wakayama University, Japan
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**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 Wakisaka<sup>1</sup>, Ye Li<sup>2</sup> and Masaya Okumiya<sup>3</sup>  
<sup>1</sup>Shizuoka Institute of Science and Technology, <sup>2</sup>Sakakura Associates, <sup>3</sup>Nagoya 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 Liang<sup>1</sup> and Hui Li<sup>2</sup>  
<sup>1</sup>International Design Studio. Tsinghua, <sup>2</sup>China 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 Suh<sup>1</sup>, Ju Yeon Kim<sup>1</sup>, Jae Soon Cho<sup>2</sup> and Mi Suk Lee<sup>1</sup>  
<sup>1</sup>Soongsil University, <sup>2</sup>Korea 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 Wang<sup>1</sup>, Tustomu Shiga<sup>1</sup> and Huiqin Hu<sup>2</sup>  
<sup>1</sup>Kyushu University, Japan, <sup>2</sup>Beijing 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-yuan Chang<sup>1,2</sup>  
<sup>1</sup>Architecture and Building Research Institute, Ministry of Interior, <sup>2</sup>Tamkang 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 Ishigaki<sup>1</sup>, Kiwako Kamo<sup>2</sup>, Masashi Sogabe<sup>2</sup>, Masayoshi Takeuchi<sup>2</sup>, Manuel Tardits<sup>2</sup>, Naoya Ikeda<sup>2</sup> and Yoshinobu Hirano<sup>1</sup>  
<sup>1</sup>Hiroshima University, <sup>2</sup>MIKAN, Japan

**A-12-2 Usage Comparison of Childcare Support Facilities with Different Floor Material and the Arrangement Corner Portion**

Saya Okazaki<sup>1</sup>, Yuri Ito<sup>1</sup>, Sachiko Yamamoto<sup>2</sup> and Mahito Nakazono<sup>1</sup>  
<sup>1</sup>University of Yamaguchi, <sup>2</sup>University 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 Setyawan<sup>1</sup> and Siti Irene Astuti Dwiningrum<sup>2</sup>  
<sup>1</sup>Bandung Institute of Technology, <sup>2</sup>Yogyakarta State University, Indonesia

**A-12-4 Study of Correlation between Biocoenose Systems and Technical College Campus Systems**

Qiushi Hao, Benchen Fu and Lingjun Hao  
*Harbin Institute of Technology, China*

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**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 and Shaolei 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 Meng<sup>1</sup>, Benchen Fu<sup>2</sup> and Chuanqi Liu<sup>1</sup>

<sup>1</sup>Harbin Institute of Technology, <sup>2</sup>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*

**A-13-4 For the Realization of Urban Ecological Stabilization: 'Back-to-the-ground' Design of Architecture in the Image Consciousness**

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 Tectonic Culture**

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 living - A study through management history of 'Group House SAKURA'**

Junko Miyano<sup>1</sup> and Mitsuo Takada<sup>2</sup>

<sup>1</sup>The Hyogo Institute of Assistive Technology, <sup>2</sup>Kyoto University, Japan

**A-14-2 Spatial Configuration and Space for Creating Income (SCI) for Arts and Music School**

Nayatat Tonmitr

*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 Ishibashi<sup>1</sup>, Mahito Nakazono<sup>1</sup>, Sachiko Mishima<sup>1</sup>, Syohken Koh<sup>1</sup>, Sachiko Yamamoto<sup>2</sup> and Saori Ohashi<sup>1</sup>

<sup>1</sup>University of Yamaguchi, <sup>2</sup>University of Tsukuba, Japan

**A-14-4 Space Utilization of Regional Nucleus Day Care Facility - Case Study in Abu Town Yamaguchi Prefecture -**

Sachiko Mishima<sup>1</sup>, Mahito Nakazono<sup>1</sup>, Syohken Koh<sup>1</sup>, Sachiko Yamamoto<sup>2</sup>, Nagisa Ishibashi<sup>1</sup> and Saori Ohashi<sup>1</sup>

<sup>1</sup>Yamaguchi University, <sup>2</sup>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 Kim<sup>1</sup>, Kyeonghwa Byun<sup>2</sup>, Hyun-Hak Do<sup>3</sup>, Jae-Hyung Seo<sup>4</sup> and Jeong-Lim Lee<sup>5</sup>

<sup>1</sup>Gangdong University, <sup>2</sup>Catholic Kwandong University, <sup>3</sup>Yeungnam University, <sup>4</sup>SUN Architects & Planners, <sup>5</sup>Jeju Tourism University, Korea

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## **A-14-6 A study monitoring environmental systems for the elderly by intelligent space**

Akiko Watanabe and Hiroya 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 Ito<sup>1</sup>, Satoru Yamazaki<sup>2</sup>, Hideaki Katsumata<sup>1</sup> and Yusuke Mizuno<sup>1</sup>  
<sup>1</sup>Tokyo city University, <sup>2</sup>Kanagawa University of Human Services, Japan

### **A-15-2 Satisfaction Factors Affecting Visitors to visit the Museum**

Angela Upitya Paramitasari  
*Bandung Institute of Technology, Indonesia*

### **A-15-3 Current Status of Safety Management of Protestant Religious Facilities**

Seonguk Hong, Seunghun Kim, Kiyoung 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 Moldel 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 Landsepae in “View of Traveling”-Creative Learning of Regional Traditional Settlement Landscape Space**

Wei Wang<sup>1,2</sup>  
<sup>1</sup>Harbin Institute of Technology, <sup>2</sup>Shenyang 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*

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**A-17-2 External Space around the Dwelling Units of Prefectural Housing in Okinawa, Japan**

Genki Oshiro<sup>1</sup> and Toru Irie<sup>2</sup>

<sup>1</sup> HISATOMO PLAN Co., Ltd., <sup>2</sup> 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 Ohba<sup>1</sup>, Mahito Nakazono<sup>2</sup> and Akira Ushijima<sup>2</sup>

<sup>1</sup> The Urban Policy Institute, Yokosuka City, <sup>2</sup> Yamaguchi University, Japan

**A-17-6 Independence and Symbiosis : Design Thinking on Collective Office Pattern**

Huanyu Hou<sup>1</sup>, Ying Gao<sup>2</sup> and Zhen Gu<sup>3</sup>

<sup>1</sup> Architecture School of Tianjin University, <sup>2</sup> Dalian University of Technology, <sup>3</sup> Walton Design Consulting Engineering Co., Ltd., China

**A-17-7 Architectural planning of the stand-alone public toilets in Okinawa, Japan**

Yoshihiro Kunisada<sup>1</sup> and Toru Irie<sup>2</sup>

<sup>1</sup> Studio Jag, <sup>2</sup> 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 Wei<sup>1</sup> and Feng Ke<sup>2</sup>

<sup>1</sup> North National University, <sup>2</sup> 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-**

Hongtao Liu<sup>1</sup>, Xuan Wang<sup>2</sup>, Min Li<sup>1</sup> and Gen Taniguchi<sup>3</sup>

<sup>1</sup> Southwest Jiaotong University of Chengdu, China, <sup>2</sup> Southwest University of Science and Technology of Mianyang, China,

<sup>3</sup> 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**

Yudiantini 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 Kim<sup>1</sup>, Akihiko Ono<sup>2</sup> and Toru Mitani<sup>1</sup>

<sup>1</sup> Chiba University, <sup>2</sup> Chuo University, Japan

**B-2-4 The structure of ideas in Isamu Noguchi's garden design**

Yuriko Imamura<sup>1</sup> and Eiji Kumazawa<sup>2</sup>

<sup>1</sup> University of Fukui, <sup>2</sup> National Institute of Technology, Ishikawa College, Japan

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**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( 黄金町 )**

Eun Ae Sim and Dong Soo Han

*Hanyang Univesity, 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 Ivanovic<sup>1</sup> and Shinya Miyazaki<sup>2</sup>

*<sup>1</sup>Xi'an Jiaotong-Liverpool University, China, <sup>2</sup>Fukuoka University, Japan*

**B-3-4 A study on the Taiki old elementary school as the Regional Environmental heritage : from the measuring survey**

Hiroaki Ueda<sup>1</sup>, Tomotsune Honda<sup>2</sup>, Shusuke Inachi<sup>2</sup> and Ai Sakaki<sup>2</sup>

*<sup>1</sup>Environment Creation Support Center (NPO), <sup>2</sup>Setsuman 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 Honda<sup>1</sup>, Hiroaki Ueda<sup>2</sup>, Shusuke Inachi<sup>1</sup> and Ai Sakaki<sup>1</sup>

*<sup>1</sup>Setsuman University, <sup>2</sup>Environment Creation Suport Center, Japan*

**B-3-6 Form and Embodiment of Space; “Lobo” Ngata Toro**

Wasilah Sahabuddin<sup>1</sup> and Fuad Zubaidi<sup>2</sup>

*<sup>1</sup>Islamic State Alauddin University, <sup>2</sup>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 Giographical 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 Kao<sup>1</sup>, Cong Hua Lin<sup>1</sup>, Pao Ning Yin<sup>2</sup> and Wai Huang<sup>1</sup>

*<sup>1</sup>Fujian University of Technology, China, <sup>2</sup>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 PalaceArchitecture**

Chang Ding<sup>1</sup> and Ming Tang<sup>2</sup>

*<sup>1</sup>China University of Mining and Technology, China, <sup>2</sup>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 Hassyati

*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*

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■ **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<sup>1</sup>, Yasuo Nagai<sup>2</sup>, Junichiro Matsumoto<sup>3</sup> and Kuniaki Ito<sup>4,5</sup>  
<sup>1</sup>TIS Partners, <sup>2</sup>Yamagata University, <sup>3</sup>J. Matsumoto Architectural Office, <sup>4</sup>Tohoku University, <sup>5</sup>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<sup>1</sup>, Qinian Hu<sup>1</sup>, Hiroatsu Fukuda<sup>1</sup> and Dian Zhou<sup>2</sup>  
<sup>1</sup>The University of Kitakyushu, Japan, <sup>2</sup>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 Infeasibility 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<sup>1</sup> and Yan Jin<sup>2</sup>  
<sup>1</sup>The University of Hang Kang, <sup>2</sup>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<sup>1</sup>, Gerard Corsane<sup>2</sup>, Shaosen Wang<sup>1</sup>, Liangliang Wang<sup>1</sup>, Suyu Li<sup>1</sup> and Yumin Cai<sup>1</sup>  
<sup>1</sup>Xiamen University, China, <sup>2</sup>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*
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- 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 Kinjo<sup>1</sup>, Nayatat Tonmitr<sup>2</sup>, Toru Irie<sup>1</sup> and Nobuyuki Ogura<sup>1</sup>  
<sup>1</sup> *University of Ryukyus, Japan*, <sup>2</sup> *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 Masuoka<sup>1</sup> and Shingo Suekane<sup>2</sup>  
<sup>1</sup> *Kyoto Arts and Crafts University*, <sup>2</sup> *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 Ha<sup>1</sup> and Qiang Liu<sup>2</sup>  
<sup>1</sup> *Shenyang Jianzhu University*, <sup>2</sup> *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 Koresawa<sup>1</sup>, Yoshiko Shimadzu<sup>2</sup>, Shigeru Kubodera<sup>3</sup>, Shunichi Nomura<sup>4</sup> and Hiroshi Adachi<sup>5</sup>  
<sup>1</sup> *Japan Women's University*, <sup>2</sup> *National Museum of Japanese History*, <sup>3</sup> *Historical Research Institute for Architectural Decoration Technology*, <sup>4</sup> *Tohoku University*, <sup>5</sup> *Kobe University, Japan*
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**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 Watabe<sup>1</sup>, Yuriko Nakano<sup>2</sup> and Goki Takaoka<sup>1</sup>

<sup>1</sup>National Institute of Technology, Maizuru College, <sup>2</sup>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 Takaoka<sup>1</sup>, Yuriko Nakano<sup>2</sup> and Masahiro Watabe<sup>1</sup>

<sup>1</sup>National Institute of Technology, Maizuru College, <sup>2</sup>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 Verdejo<sup>1</sup> and Jesus Alberto Pulido Arcas<sup>2</sup>

<sup>1</sup>University of Shiga Prefecture, Japan, <sup>2</sup>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 Arfianti<sup>1</sup>, Josef Prijotomo<sup>2</sup> and Purwanita Setijanti<sup>2</sup>

<sup>1</sup>Universitas Pembangunan Nasional Veteran Jawa Timur, <sup>2</sup>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 Obaat<sup>1,2</sup>

<sup>1</sup>The University of Tokyo, <sup>2</sup>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

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**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 Naksansa 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 Octagonal 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 Feng<sup>1,5</sup>, Wei Wang<sup>2,3</sup> and Xiao Feng<sup>4</sup>  
<sup>1</sup>Tianjin University, <sup>2</sup>XAUAT, <sup>3</sup>North National University, <sup>4</sup>Henan University, <sup>5</sup>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 Zhang<sup>1</sup> and Jianfei Chen<sup>2</sup>  
<sup>1</sup>Harbin Institute of Technology, <sup>2</sup>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 Wu<sup>1</sup> and Li Guan<sup>2</sup>  
<sup>1</sup>University of Tokyo, <sup>2</sup>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 Sun<sup>1</sup>, Zao Li<sup>1</sup>, Min Gao<sup>2</sup> and Daren Wang<sup>1</sup>  
<sup>1</sup>Hefei University of Technology, <sup>2</sup>Shandong Tongyuan Design Limited Company, China

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**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<sup>1</sup>, Tadahisa Sakai<sup>2</sup>, Masahiro Onuma<sup>3</sup> and Masaaki Tokairin<sup>4</sup>  
<sup>1</sup>Tohoku University, <sup>2</sup>Chido Museum, Tsuruoka, <sup>3</sup>Tohoku Institute of Technology, <sup>4</sup>Tokairin Appraisal, Japan

**B-14-2 A Study on the architecture of cattle barns of Iriki fumoto village in Kagoshima**  
Susumu Mizuta<sup>1</sup> and Mitsuyoshi Tsuchida<sup>2</sup>  
<sup>1</sup>Hiroshima University, <sup>2</sup>Kagoshima 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 Lufeng 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 Institue 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<sup>1</sup> and Nam-Gi Lim<sup>2</sup>  
<sup>1</sup>Ison-Industry Research Institute, <sup>2</sup>University 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 Kulangsu**  
Yi Qian and Qiang Liu  
*North China University of Technology, China*

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**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 Cheng<sup>1</sup>, Misao Kawai<sup>1</sup> and Shuji Funo<sup>2</sup>

<sup>1</sup> *University of Shiga Prefecture,* <sup>2</sup> *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-imaginarieness of the city**

Young Min Koo and Sang-Il 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 Oubriere's Work - focused on the Architectural Characteristics of Miller House**

Gang-Moo Huh and Young-Min Koo

*Inha University, Korea*

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**B-18-4 Time Constructing Space**

Susilo Kusdiwanggo<sup>1</sup> and Lioni Beatrik Tobing<sup>2</sup>  
<sup>1</sup>Universitas Brawijaya, Indonesia, <sup>2</sup>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 Taguchi<sup>1</sup>, Takuya Moriyama<sup>1</sup> and Yuusuke Karasawa<sup>2</sup>  
<sup>1</sup>Saga University, Japan, <sup>2</sup>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 3** \_\_\_\_\_ **Sept. 22 (Thu) 13:30-15:15**

**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 Paticipation in The Development of British Concession in Tianjin, China**

Yichen Liu<sup>1</sup> and Masaki Fujikawa<sup>2</sup>  
<sup>1</sup>Toyoashi University of Technolgy, <sup>2</sup>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 6/Typology and Method** \_\_\_\_\_ **Sept. 22 (Thu) 13:30-15:15**

**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 Xu<sup>1</sup>, Wei Wang<sup>2</sup>, Yuhao Tu<sup>2</sup> and Jiangde Liu<sup>2</sup>  
<sup>1</sup>Southeast University, <sup>2</sup>Hunan University, China

**B-20-4 Evolvement of Architectural Types in China's Rural Area: Case Study on Xiamei Village in Fujian Province**

Siqi Li<sup>1</sup> and Ying Zou<sup>2</sup>  
<sup>1</sup>University of Tokyo, Japan, <sup>2</sup>Tianjin University, China

**B-20-5 A Study on the Construction Process of Butokuden and their Role in Taiwan under Japanese Rule**

Hiroimi 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*

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**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 Kaku<sup>1</sup>, Takeo Ozawa<sup>1</sup> and Kaho Miyoshi<sup>2</sup>

<sup>1</sup> Hokkaido University, <sup>2</sup> Eight-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 Fan<sup>1</sup> and Yukun Zhang<sup>2</sup>

<sup>1</sup> Dalian University of Technology, <sup>2</sup> Tianjin University, China

**B-21-4 The report on the damaged situation of historical buildings in Khokana, Nepal after the 2015 earthquake**

Tomoko Mori<sup>1</sup> and Mitsuhiro Miyamoto<sup>2</sup>

<sup>1</sup> The University of Tokyo, <sup>2</sup> Kagawa 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 Zuraida, 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 Kobayashi<sup>1</sup>, Yuki Shibuya<sup>1</sup> and Katsuhito Sasaki<sup>2</sup>

<sup>1</sup> Tohoku University, <sup>2</sup> Takenaka 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*

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- 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 Univesity 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 Zhen<sup>1</sup> and Jianfei Chen<sup>2</sup>  
<sup>1</sup>*Harbin Institute of Technology,* <sup>2</sup>*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 Gao<sup>1</sup>, Decai Wang<sup>1</sup>, Zhi Zheng<sup>2</sup>, Weimin Yao<sup>3</sup> and Zao Li<sup>1</sup>  
<sup>1</sup>*Hefei University of Technology,* <sup>2</sup>*Design and Research Co.,Ltd.,* <sup>3</sup>*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 Lee<sup>1</sup>, Yuchia Liao<sup>1</sup>, Ryo Sanuki<sup>1</sup>, Makoto Tsunoda<sup>1</sup> and Sangjun Yi<sup>2</sup>  
<sup>1</sup>*Tokyo Metropolitan University,* <sup>2</sup>*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*
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- 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 Du<sup>1</sup> and Benchen Fu<sup>2</sup>  
<sup>1</sup> Harbin Institute of Technology, <sup>2</sup> 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 Transformation of the Commercial Area in the University Town of Hefei**  
Yongjie Li, Xiang Gao, Xuebin 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 records with 4 trial cases of application toward future usage-**  
Hideyuki Kobayashi  
*National Institute for Land and Infrastructure Management, Japan*
- C-5-5 A Comparative Study of Green Pattern of Core Area in Beijing, London, Paris, New York City.**  
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 Firdous<sup>1</sup>, Shah Alam Badshah<sup>2</sup>, Bikash Saud Ansary<sup>2,3</sup> and Sung Kyun Kim<sup>1</sup>  
<sup>1</sup> Seoul National University, Korea, <sup>2</sup> Hamdard University Bangladesh (HUB), Bangladesh, <sup>3</sup> 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 Dong<sup>1,2,3</sup>, Ke Chao Li<sup>1</sup>, Yue Nan Xing<sup>1</sup>, Teng Long Tan<sup>1</sup> and Chuanpeng Ma  
<sup>1</sup> Changchun Institute of Technology, China, <sup>2</sup> Harbin Institute of Technology, China, <sup>3</sup> Bangkok Thonburi University, Thailand
- C-6-2 The pitfalls of integrated approach of eco-city development and its possible solutions**  
Wenjun Hu<sup>1,2</sup>, Zao Li<sup>1</sup> and Li Yu<sup>2</sup>  
<sup>1</sup> Hefei University of Technology, China, <sup>2</sup> Cardiff University, UK
- C-6-3 Capability of Social Media in Structuring Collective Memory for Future Urban Design Project**  
Sushardjanti Felasari<sup>1</sup> and M. Sani Roychansyah<sup>2</sup>  
<sup>1</sup> Universitas Atma Jaya Yogyakarta, <sup>2</sup> Universitas Gadjah Mada, Yogyakarta, Indonesia
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**C-6-4 The analysis on satisfaction-impacted factors of urban brownfield landscape renovation: on the basis of Reasoned Action Theory**

Lei Zhang<sup>1</sup>, Fei Lian<sup>2</sup> and Yuning Cheng<sup>1</sup>

<sup>1</sup> Southeast University and Harbin University of Science And Technology, <sup>2</sup> 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<sup>1</sup>, Koh Yamamoto<sup>2</sup> and Ilji Cheong<sup>1</sup>

<sup>1</sup> Kanagawa University, <sup>2</sup> 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<sup>1</sup>, Kaoru Matsuo<sup>1</sup>, Takahiro Tanaka<sup>1</sup> and Satoru Sadohara<sup>2</sup>

<sup>1</sup> Hiroshima University, <sup>2</sup> Yokohama National University, Japan

**C-7-2 Strategic Development of Green Infrastructure Implementation in Shrinking Cities**

Takanori Fukuoka<sup>1</sup> and Sadahisa Kato<sup>2</sup>

<sup>1</sup> Kobe University, <sup>2</sup> 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<sup>1,2</sup> and Feng Lu<sup>1</sup>

<sup>1</sup> Chongqing University, China, <sup>2</sup> 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<sup>1</sup> and Hiroshi Miyazaki<sup>2</sup>

<sup>1</sup> Kobe University, <sup>2</sup> Kansai University, Japan

**C-7-7 Ecological Architecture Concept in Campus Building in Indonesia**

Jarwa Prasetya Sih Handoko

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 Liaodong 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

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**C-8-5 A study on validity of physical quantitative indexes of river landscape evaluation - To provide foundation for urban planning**

Rui Jiang<sup>1</sup>, Daisaku Nishina<sup>1</sup>, Jung-In Suh<sup>2</sup> and Takahiro Tanaka<sup>1</sup>  
<sup>1</sup> Hiroshima University, Japan, <sup>2</sup> 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 Yoshimoto<sup>1</sup>, Yuko Suenaga<sup>2</sup>, Kishio Hidaka<sup>2</sup>, Kazuya Mitsuji<sup>2</sup> and Yasuo Nagai<sup>2</sup>  
<sup>1</sup> Hitachi, Ltd., <sup>2</sup> 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 Yamashita<sup>1</sup>, Makoto Koganei<sup>1</sup>, Kyosuke Hiyama<sup>2</sup>, Takeshi Kondo<sup>3</sup> and Ryutaro Kubo<sup>3</sup>  
<sup>1</sup> Yamaguchi University, <sup>2</sup> Meiji University, <sup>3</sup> 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 Liu<sup>1</sup> and Hongyuan Mei<sup>1,2</sup>  
<sup>1</sup> Harbin Institute of Technology, <sup>2</sup> 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 Doi<sup>1</sup> and Tetsu Masaki<sup>2</sup>  
<sup>1</sup> Yamashita Sekkei inc., <sup>2</sup> 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

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■ **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<sup>1</sup>, Haifeng Wang<sup>1</sup>, Shanshan Wei<sup>1</sup>, Xiaoxiao Wu<sup>2</sup> and Jing Liu<sup>3</sup>

<sup>1</sup> Dalian University of Technology, <sup>2</sup> Dalian Municipal Bureau of Land Resources and Housing, <sup>3</sup> 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 Prमितasari<sup>1</sup>, Surjamanto Wonorahardjo<sup>2</sup> and F. X. Nugroho Soelami<sup>2</sup>

<sup>1</sup> Institut Teknologi Nasional Malang, <sup>2</sup> Institut Teknologi Bandung, Indonesia

**C-11-5 Formaldehyde Concentration Measurements of Pathological Examination Room**

Koichi Ikeda<sup>1</sup>, Hiroki Iwama<sup>2</sup>, Torahiko Saeki<sup>2</sup>, Tshihiro Anai<sup>2</sup>, Huaipeng Tang<sup>2</sup> and Shuto Enomoto<sup>1</sup>

<sup>1</sup> Nihon University, <sup>2</sup> 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<sup>1</sup>, Mohd Azuan Zakaria<sup>1</sup>, Makoto Ohashi<sup>1</sup>, Kanao Daiki<sup>1</sup>, Doris Hooi Chyee Toe<sup>2</sup> and Mohd Hamdan Ahmad<sup>2</sup>

<sup>1</sup> Hiroshima University, Japan, <sup>2</sup> 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, Qiufang 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 Trihamdani<sup>1</sup>, Kento Sumida<sup>1</sup>, Tetsu Kubota<sup>1</sup>, Han Soo Lee<sup>1</sup> and Tran Thi Thu Phuong<sup>2</sup>

<sup>1</sup> Hiroshima University, Japan, <sup>2</sup> 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 Yuki Yagami

Kansai University, Japan

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**C-13-4 Research on the Influence of Piloti Ratio on Wind Environment in Residential Blocks by Coupled Simulation Method**

Tianyu Xi<sup>1</sup>, Hong Jin<sup>1</sup>, Jianhua Ding<sup>2</sup> and Yu Zhang<sup>1</sup>

<sup>1</sup>Harbin Institute of Technology, <sup>2</sup>Tsinghua 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 Ashrafal 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 Shojai<sup>1</sup>, Kaveh Fattahi<sup>2</sup> and Suguru Mori<sup>1</sup>

<sup>1</sup>Hokkaido University, Japan, <sup>2</sup>Shiraz 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 Ogawa<sup>1</sup> and Madoka Chosokabe<sup>2</sup>

<sup>1</sup>Tokushima University, <sup>2</sup>Tottori University, Japan

**D-1-4 Compact City 2.0: High Density Urban Settlement in the Era of Information and Communication Technology**

M. Sani Roychansyah<sup>1</sup> and Sushardjanti Felasari<sup>2</sup>

<sup>1</sup>Universitas Gadjah Mada, <sup>2</sup>Universitas 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 Hong<sup>1</sup> and Cui Xu<sup>2</sup>

<sup>1</sup>Southwest Jiao Tong University, China, <sup>2</sup>Kyushu 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 Yi<sup>1</sup>, Lizao Liu<sup>2</sup> and Maoyan Xu<sup>1</sup>

<sup>1</sup>Tsinghua University, <sup>2</sup>Beijing 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 Kubota<sup>1</sup>, Akinobu Masumura<sup>1</sup>, Misa Lee<sup>2</sup>, Yoshino Ota<sup>1</sup>, Sakura Kawata<sup>1</sup>, Takeshi Kuromoto<sup>1</sup> and Takuya Hagiwara<sup>1</sup>  
<sup>1</sup> University of Tokyo, <sup>2</sup> 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 Fukuoka<sup>1</sup>, Maki Ryu<sup>2</sup>, Mai Yoshitake<sup>3</sup>, Atsuko Suzuki<sup>4</sup> and Natsuki Morii<sup>1</sup>  
<sup>1</sup> Kobe University, <sup>2</sup> Delft University of Technology, <sup>3</sup> Tokyo University, <sup>4</sup> 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 Livelihood and 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 Yi<sup>1,2</sup>, Yoshitsugu Morita<sup>2</sup> and Ma Wajun<sup>1</sup>  
<sup>1</sup> Guangdong University of Technology, China, <sup>2</sup> 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 Kato<sup>1</sup> and Takanori Fukuoka<sup>2</sup>  
<sup>1</sup> Okayama University, <sup>2</sup> 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
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## ■ 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 Koerniawan  
*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<sup>1</sup>, Siti Luzviminda Harum Pratiwi Setyawan<sup>2</sup> and Cherish Nurul Ainy<sup>2</sup>  
<sup>1</sup>Seoul National University, Korea, <sup>2</sup>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 Medhiansyah  
*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<sup>1</sup>, Rieka Hara<sup>2</sup>, Maho Sugiyama<sup>3</sup> and Jorge Almazan<sup>2</sup>  
<sup>1</sup>Public Place Partners, <sup>2</sup>Keio University, <sup>3</sup>Hulic Co. LTD, Japan
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**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 Wei<sup>1</sup>, Chunyan Guo<sup>2</sup> and Peng Luo<sup>1</sup>  
<sup>1</sup>Harbin Institute of Technology, <sup>2</sup>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** \_\_\_\_\_ **Sept. 22 (Thu) 8:30-10:15**

**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 Suguru 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, Tsutomu 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, Tsutomu 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 Shigemura<sup>1</sup> and Tomohiro Mikasa<sup>2</sup>  
<sup>1</sup>Kanagawa University/Kobe University, <sup>2</sup>Nishinippon Institute of Technology, Japan

■ **D-9 Livable Community 2** \_\_\_\_\_ **Sept. 22 (Thu) 10:30-12:15**

**D-9-1 Context Integration: A Design of Modern Middle School with Traditional**

Hong Wang<sup>1</sup>, Mu Guo<sup>2</sup> and Zhou Yu<sup>3</sup>  
<sup>1</sup>Zhejiang University of Technology, China, <sup>2</sup>Bluetown Property Construction Management Group Co.Ltd, China,  
<sup>3</sup>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 Li<sup>1</sup>, Benchen Fu<sup>1</sup> and Yipeng Sun<sup>2</sup>  
<sup>1</sup>Harbin Institute of Technology, China, <sup>2</sup>Harbin Public Security Bureau

**D-9-3 Study on Jinbo Island urban design based on climate analysis**

Jingcheng Yuan<sup>1</sup>, Wenfei Li<sup>2</sup> and Shi Chen<sup>1</sup>  
<sup>1</sup>Shenyang Jianzhu University, <sup>2</sup>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 Raza<sup>1</sup>, Kuo Fan-Sheng<sup>2</sup> and Joe F. Peralta<sup>3</sup>  
<sup>1</sup>Philippines School of Business Administration, Manila, Philippines, <sup>2</sup>Taiwan University of Science and Technology, Taiwan, <sup>3</sup>Philippine School of Business Administration, Manila, Philippines

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**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 Xue<sup>1</sup>, Fei Lian<sup>1</sup> and Jia Li<sup>2</sup>

<sup>1</sup>Harbin Institute of Technology, <sup>2</sup>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 Nuzir<sup>1</sup>, Haris Murwadi<sup>1,2</sup> and Bart Dewancker<sup>2</sup>

<sup>1</sup>Bandar Lampung University, Indonesia, <sup>2</sup>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 Tonmitr<sup>2</sup>, Rawee Hanpachern<sup>2</sup> and Nobuyuki Ogura<sup>1</sup>

<sup>1</sup>University of the Ryukyus, Japan, <sup>2</sup>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, Mokhammad Syaom Barliana and Johar Maknun

*Universitas Pendidikan Indonesia, Indonesia*

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■ **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<sup>1</sup> and Mitsuo Takada<sup>2</sup>  
<sup>1</sup> Okayama University, <sup>2</sup> 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<sup>1,2</sup>, Weiyi Cui<sup>1,2</sup>, Qingtao Li<sup>1,2</sup>, Siqi Huang<sup>1,2</sup>, Li Yu<sup>1</sup> and Zao Li<sup>2</sup>  
<sup>1</sup> Cardiff University, UK, <sup>2</sup> 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<sup>1</sup>, Mitsuhiko Sato<sup>1</sup> and Yosuke Fujimoto<sup>2</sup>  
<sup>1</sup> Nihon University, <sup>2</sup> 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*

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## **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 Liu<sup>1</sup>, Xudong Zhao<sup>1,2</sup> and Hong Jin<sup>1</sup>  
<sup>1</sup>*Harbin Institute of Technology, China,* <sup>2</sup>*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 Yoshioka<sup>1</sup>, Masashi Sogabe<sup>2</sup>, Miki Zhang<sup>3</sup> and Akira Hasegawa  
<sup>1</sup>*Kanagawa University,* <sup>2</sup>*Matidesign,* <sup>3</sup>*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 Mori<sup>1</sup>, Solongo Jamiyandorj<sup>2</sup> and Rie Nomura<sup>1</sup>  
<sup>1</sup>*Hokkaido University,* <sup>2</sup>*YKK AP Inc., Japan*

### **D-15-5 A Comparison Study in Repair Process of Communal Area in Residential Housing Between Japan and China**

Xueqi Cui<sup>1</sup>, Yuchia Liao<sup>1</sup>, Makoto Tsunoda<sup>1</sup>, Sangjun Yi<sup>2</sup> and Ryo Sanuki<sup>1</sup>  
<sup>1</sup>*Tokyo Metropolitan University,* <sup>2</sup>*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 Techonology, 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 Feng<sup>1,2</sup>  
<sup>1</sup>*China Academy of Urban Planning & Design,* <sup>2</sup>*Tsinghua University, China*

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**D-16-4 Integrated Analysis On The Cultural Landmarks Of A Chinese National Historical And Cultural City : Dose Recognition Degree Equate Aggregation Degree**

Min Yin<sup>1</sup>, Yangjin Chen<sup>1</sup>, Yueping Zhou<sup>2</sup>, Guangzhou Li<sup>1</sup> and Jiangang Xu<sup>3</sup>

<sup>1</sup>Nanjing University, <sup>2</sup>Suzhou Planning & Design Research Institute CO.,LTD., Suzhou, <sup>3</sup>China 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 Suzuki

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 Takeuchi<sup>1</sup> and Norio Maki<sup>2</sup>

<sup>1</sup>Tohoku Institute of Technology, <sup>2</sup>Kyoto 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

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## ■ D-19 Urban Fabric \_\_\_\_\_ Sept. 22 (Thu) 15:30-17:15

- 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 Qu<sup>1,2</sup>  
<sup>1</sup> *East China Architectural Design & Research Institute Co., Ltd.*, <sup>2</sup> *Tsinghua University, China*
- D-19-3 The Research on the Community Sport Activities Behavior Characteristics in Cold Region Based on VGI and GIS**  
Qi Guo<sup>1</sup> and Hongyuan Mei<sup>2</sup>  
<sup>1</sup> *Harbin Institute of Technology*, <sup>2</sup> *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*
- D-19-7 Application of Unmanned aerial Vehicle Platform in Urban Planning**  
Haohao Xu<sup>1</sup>, Yuhao Tu<sup>2</sup> and Jiande Liu<sup>3</sup>  
<sup>1</sup> *Southeast University*, <sup>2</sup> *Fanyi Studio*, <sup>3</sup> *Tongji University, China*

## ■ E-1 Structural Experiment/Analysis \_\_\_\_\_ Sept. 21 (Wed) 13:30-15:15

- 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 Wakita<sup>1</sup>, Eiichi Inai<sup>1</sup>, Tomofusa Akita<sup>1</sup>, Takuya Kakihara<sup>2</sup>, Takanori Kawamoto<sup>2</sup> and Junji Osaki<sup>2</sup>  
<sup>1</sup> *University of Yamaguchi*, <sup>2</sup> *Ube Industries, Japan*
- E-1-4 Impact fracture behavior of concrete panel by projectile nose shape**  
Sangkyu Lee<sup>1</sup>, Hongseop Kim<sup>1</sup>, Minjae Son<sup>1</sup> and Jeongsoo Nam<sup>2</sup>  
<sup>1</sup> *Chungnam National University, Korea*, <sup>2</sup> *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 Jung<sup>1</sup>, Seok-Ho Yoon<sup>1</sup>, Cheol Hwan Kim<sup>2</sup>, Kwan-Mok Yang<sup>1</sup> and Dong-Woo Lee<sup>3</sup>  
<sup>1</sup> *Kyungdong University*, <sup>2</sup> *Kyungpook National University*, <sup>3</sup> *I'ST Co., Ltd., Korea*

## ■ E-2 Structural Design \_\_\_\_\_ Sept. 21 (Wed) 15:30-17:15

- E-2-1 Structural Design for Tall Damped Building with Irregularly-Shaped Plane and Elevation**  
Yasuhiko Yamashita, Soichiro Kushima, Yuichiro Okuno, Kazuto Nakahira and Taisei Morishita  
*Takenaka Corporation, Japan*

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**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 Ju<sup>1</sup>, Seul Ki Hwang<sup>1</sup>, Ji su Kang<sup>1</sup>, Sung Mo Choi<sup>1</sup>, Yong Pil Park<sup>2</sup> and Bu Kyu Kim<sup>3</sup>  
<sup>1</sup>University of Seoul, <sup>2</sup>AAwon Structural Engineering, <sup>3</sup>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. Abebe<sup>1</sup>, Gyumyong Gwak<sup>1</sup>, Sijeong Jeong<sup>1</sup>, Jinwoo Kim<sup>2</sup> and Jaehyouk Choi<sup>1</sup>  
<sup>1</sup>Chosun Unievrstity, Korea, <sup>2</sup>Osaka Unievrstity, Japan

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**■ E-3 Historic/Existing Structures \_\_\_\_\_ Sept. 22 (Thu) 8:30-10:15****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 Fujita<sup>1</sup>, Toshikazu Hanazato<sup>2</sup>, Subedi Jishnu<sup>3</sup>, Rajbhandari Suman<sup>4</sup> and Takahiro Toyoda<sup>1</sup>  
<sup>1</sup>The University of Tokyo, Japan, <sup>2</sup>Mie University, Japan, <sup>3</sup>Center of Resilient Development, Nepal, <sup>4</sup>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 Ha<sup>1</sup>, Dong Ryul Yi<sup>1</sup>, Hyun Wook Kang<sup>2</sup> and Young Joo Ha<sup>2</sup>  
<sup>1</sup>Kyungil University, <sup>2</sup>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 Ha<sup>1</sup>, Dong Ryul Yi<sup>1</sup>, Jae Hoon Ha<sup>2</sup> and Min Su Ha<sup>2</sup>  
<sup>1</sup>Kyungil University, <sup>2</sup>Construction Technology & Policy Institute, Korea

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**■ E-4 Timber Structures \_\_\_\_\_ Sept. 22 (Thu) 10:30-12:15****E-4-1 Experimental study on the properties of wooden rigid frame with structural plywood wall**

Yoshio Sakamaki<sup>1</sup>, Nobuyoshi Michiba<sup>1</sup>, Keisuke Kagawa<sup>1</sup>, Mayu Nakayama<sup>1</sup>, Seiji Takanashi<sup>2</sup> and Yoshimitsu Ohashi<sup>3</sup>  
<sup>1</sup>Hoseplus Corporation, <sup>2</sup>National Institute of Occupational Safety and Health, <sup>3</sup>Tokyo City Univisity, 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 Hsu<sup>1</sup>, Meng-Ting Tsai<sup>1</sup> and Chien-Chung Chen<sup>2</sup>  
<sup>1</sup>National Taipei University of Technology, Taiwan, <sup>2</sup>ACA SEKKEI LTD, Japan

**E-4-4 Structural Design of Urban Wooden Structures Using New Fire-resistant Laminated Timbers**

Kouji Fukumoto  
*TAKENAKA Corporation, Japan*

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**E-4-5 Adaptive Design of Light-Frame-Wood Structure of Rural House in Northeast Forestry Areas**

Xuesong Wang<sup>1</sup>, Tiejun Li<sup>2</sup> and Daiyan Zhang<sup>1</sup>

<sup>1</sup>Harbin Institute of Technology, <sup>2</sup>Architectural 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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