### A-1 Local Design 1

**Sept. 21 (Wed) 13:30-15:15**

- **A-1-1 Conversion Process of Kura Warehouses into Cultural Facilities- A Case in Ichikawamisato City, Yamanashi Prefecture**
  
  Gaku Inoue¹, Moe Kusano¹, Tomoya Tsujii² and Jorge Almazan¹
  
  ¹Keio University, ²Obayashi Corporation, Japan

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

- **A-1-3 Reorganization Process of Public Junior High Schools After the Enactment of New Secondary Education System in Tottori Prefecture**
  
  Ryota Mitani¹, Tomohisa Hosoda², Mahito Nakazono¹, Akira Ushijima¹, Reiko Shimokura¹ and Yumiko Fukuda¹
  
  ¹Yamaguchi University, ²National Institute of Technology, Yonago College, ³National Institute of Technology, Kure College, ⁴Hiroshima Institute of Technology, Japan

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

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

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

- **A-1-7 Methods of regional expression by the use of PCa in the buildings of Okinawa**
  
  Morihisa Shiroma¹ and Toru Irie²
  
  ¹KUNIKEN LTD., ²University 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 Sato¹, Piyarat Nanta², Toru Irie¹ and Nobuyuki Ogura¹
  
  ¹University of Ryukyus, Japan, ²King Mongkut's Institute of Technology Ladkrabang, Thailand

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

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

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

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

- **A-2-6 Research on the mode of "temporary construction" in post-disaster reconstruction**
  
  Dongming He¹, Tong Zhou¹ and Yong Ma²
  
  ¹Hubei Institute of Fine Arts, ²Wuhan 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 Tsoubuchi, Suguru Mori and Rie Nomura
  
  Hokkaido University, Japan
A-3-3 The evacuation optimization of the large-scale Commercial Complex based on the space syntax
Yuting Chen¹ and Teng Fei¹
¹ Harbin Institute of Technology, ² Architectural Design and Research Institute of HIT, China

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

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

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

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

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

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

A-4-2 Development of the educational training system which utilized BIM and Portable device
Hideki Nishizawa¹, Hirotake Kanisawa¹, Keito Yoshida¹ and Hiroyuki Funaki²
¹ Shibaura Institute of Technology, ² Polytechnic University, Japan

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

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

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

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

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

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

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

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

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

A-5-4 Evaluation of Residential Environment in Long-Term Living of Temporary Housing - Measuring Method by Element in Appearance -
Akihiko Iwasa¹, Akira Sato², Shiori Suzawa² and Satoshi Boda³
¹ Hosei University, ² Freelance, ³ Tokyo University, ⁴ Niigata University, Japan

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

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

A-6 Materiality

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

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

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

A-6-4 From Dismantling to Construction - the Architectural Design Methods to Increase Old Brick Value
Hao Tang, Yanyan Xu and Yan Wang
Tianjin 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 Li¹, Xin Sui² and Ying Gao¹
¹ City Institute, Dalian University of Technology, ² Dalian Nationalities University, China

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

A-7 Design Method

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 Suh¹, Jeasoon Cho², Ju Yeon Kim³ and Jun Su Park¹
¹ Soongsil University, ² Korea National University of Education, Korea

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

A-7-7 Relations of the actor and the audience in the traditional theatre space of Japan
Shozo Motosugi
Nihon University, Japan
A-8 Aging Society 1

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

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

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

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

A-9-4 A comparative study of classrooms with interactive whiteboards in Britain, Sweden, Korea and Japan
Reiko Shimokura¹, Kaname Yanagisawa¹, Mai Morita² and Youngju Yoo²
¹ National Institute of Technology, Kure College, ² Chiba University, ³ Okamura Corporation, Japan

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

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

A-10 Design Method 2

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

A-10-2 Study on a preservation method of the regional characteristics of affected areas -Through the restoration model production workshop in Rikuzentakata, Iwate Prefecture-
Kazuki Isomura¹, Osamu Tsukihashi² and Takayuki Tomobuchi²
¹ Kobe University, ² Wakayama University, Japan
A-10-3 International Exchange x Architectural Design Education: Akashi College and UFRGS Tearoom project workshop case study
Adriana Higashino and Kazumi Kudoh
National Institute of Technology, Akashi College, Japan

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

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

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

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

A-11 Aging Society 2

A-11-1 The Study on the Renovation of Urban Multilayer-unit Residences in 1980s for the Elderly
Ming Liang1 and Hui Li2
1 International Design Studio. Tsinghua, 2 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 Suh1, Ju Yeon Kim1, Jae Soon Cho2 and Mi Suk Lee3
1 Soongsil University, 2 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 Wang1, Tustomu Shiga1 and Huiqin Hu2
1 Kyushu University, Japan, 2 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 Yasuuki Onoda
Tohoku University, Japan

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

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

A-11-7 Analysis on the Planning and Design of Unisex Restrooms
Chih-yan Chang1
1 Architecture and Building Research Institute, Ministry of Interior, 2 Tamkang University, Taiwan

A-12 Facility Planning 2

A-12-1 Planning and verification of a renewal project of children's home with downsizing care unit
Aya Ishigaki1, Kiwako Kamo2, Masashi Sogabe2, Masayoshi Takeuchi2, Manuel Tardits2, Naoya Ikeda2 and Yoshinobu Hirano1
1 Hiroshima University, 2 MIKAN, Japan

A-12-2 Usage Comparison of Childcare Support Facilities with Different Floor Material and the Arrangement Corner Portion
Saya Okazaki1, Yuri Ito1, Sachiko Yamamoto2 and Mahito Nakazono1
1 University of Yamauchi, 2 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 Setyawan3 and Siti Irene Astuti Dwiningrum3
1 Bandung Institute of Technology, 2 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
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 Meng¹, Benchen Fu² and Chuanyi Liu¹
¹Harbin Institute of Technology, ²The Architectural Design and Research Institute of HIT, China

A-13 Design Method 3
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 PSI-
Jin Jae Kim, Sung Wook Kim and You Chang Jeon
Ajou University, Korea

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

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

A-14-3 The Construction Process and Use Characteristics of Day Care Facilities for the Elderly in Mountainous Areas - Case Study on northern part of Hagi area in Yamaguchi Prefecture-
Nagisa Ishibashi¹, Mahito Nakazono¹, Sachiko Mishima¹, Syoehen Kohn¹, Sachiko Yamamoto² and Saori Ohashi¹
¹University of Yamaguchi, ²University of Tsukuba, Japan

A-14-4 Space Utilization of Regional Nucleus Day Care Facility - Case Study in Abu Town Yamaguchi Prefecture -
Sachiko Mishima¹, Mahito Nakazono¹, Syoehen Kohn¹, Sachiko Yamamoto², Nagisa Ishibashi¹ and Saori Ohashi¹
¹Yamaguchi University, ²University of Tsukuba, Japan

A-14-5 A Research on Performance Evaluation of the Pilot Project of Building Common Facilities for Seniors in Rural Areas - Focusing on the Project of Building Public Bathhouses -
Seung-Geun Kim¹, Kyeonghwa Byun², Hyun-Hak Do³, Jae-Hyung Seo³ and Jeong-Lim Lee³
¹Gangdong University, ²Catholic Kwandong University, ³Yeungnam University, ⁴SUN Architects & Planners, ⁵Jeju Tourism University, Korea
A-14-6 A study monitoring environmental systems for the elderly by intelligent space
Akiko Watanabe and Himiya Kato
Tokyo Denki University, Japan

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

A-15 Facility Planning 3
A-15-1 A Study on the State of Implementation of Notices in Group Homes for the Elderly with Dementia
Shuko Ito, Satoru Yamazaki, Hideaki Katsumata and Yusuke Mizuno
1 Tokyo City University, 2 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

Seonguk Hong, Seunghun Kim, Kiyong Jang, Mirae Park and Yongtaeg Lee
Hankuk 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
A-16-1 Study on the transparent vinyl sheets of the store front around the old tenma market of osaka
Yuki Takumi and Yoshihiro Kametani
Kansai University, Japan

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

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

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

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

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

A-17 Facility Planning 4
A-17-1 Research on Framework of Automatic and Intelligent Design Method at early stage of Architectural Design
Dagang Qu and Cheng Sun
Harbin Institute of Technology, China
A-17-2 External Space around the Dwelling Units of Prefectural Housing in Okinawa, Japan
Genki Oshiro¹ and Toru Irie²
¹ HISATOMO PLAN Co., Ltd., ² University of the Ryukyus, Japan

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

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

A-17-5 The Residence Form of Shared Housing Utilizing Vacant Houses -Analysis of examples of Ube City and Yamaguchi City in Yamaguchi prefecture-
Tomoko Ohba¹, Mahito Nakazono² and Akira Usuijima³
¹ The Urban Policy Institute, Yokosuka City, ² Yamaguchi University, Japan

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

A-17-7 Architectural planning of the stand-alone public toilets in Okinawa, Japan
Yoshihiro Kunisada¹ and Toru Irie²
¹ Studio Jag, ² University of the Ryukyus, Japan

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

B-3-4  A study on the Taiki old elementary school as the Regional Environmental heritage: from the measuring survey  
Hiroaki Ueda¹, Tomotsune Honda¹, Shusuke Inachi² and Ai Sakaki²  
¹Setsunan University, ²Environment Creation Support Center (NPO), ³Setsunan University, Japan

B-3-5  The spatial configuration of the local landscape of small villages along the main historical road called Koza-Kaido, Japan  
Tomotsune Honda¹, Hiroaki Ueda¹, Shusuke Inachi² and Ai Sakaki¹  
¹Setsunan University, ²Environment Creation Support Center, Japan

B-3-6  Form and Embodiment of Space: “Lobo” Ngata Toro  
Wasilah Sahabuddin¹ and Fuad Zabaidi²  
¹Islamic State Alauddin University, ²Tadulako 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  
Itsko Hasegawa Architectural Atelier, Japan

B-4-3  Tradition in transition, modernity in question: A Case study of Historic Building Fu-Hsin Mansion, Fujian Province, China  
Hsiao Chien Kao¹, Cong Hua Lin¹, Pao Ning Yin¹ and Wai Huang¹  
¹Fujian University of Technology, China, ²National Taiwan University of Art, Taiwan

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

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

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

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

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

B-5-2 Traditional-Modern House entering into the old Castle Town
Ryota Shimizu1, Yasuo Nagai2, Junichiro Matsumoto3 and Kuniaki Ito4
1TIS Partners, 2Yamagata University, 3J.Matsumoto Architectural Office, 4Tohoku University, 5K. 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 Zhang1, Qinian Hu1, Hiroatsu Fukuda1 and Dian Zhou1
1The University of Kitakyushu, Japan, 2Xi’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 Jia1 and Yan Jin2
1The University of Hang Kang, 2Beijing 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 Han1, Gerard Corsane2, Shaosen Wang1, Liangliang Wang1, Suyu Li1’ and Yumin Cai1
1Xiamen University, China, 2Newcastle University, UK

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

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

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

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

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

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

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

B-8 Architect 2

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

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

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

B-9-3 Transition of the Wood Painting and the Color on De Forest Hall as a History of Modern Architecture
Noriko Koresawa1, Yoshiko Shimadzu1, Shigeru Kubodera1, Shunichi Nomura1 and Hiroshi Adachi2
1 Japan Women's University, 2 National Museum of Japanese History, 3 Historical Research Institute for Architectural Decoration Technology, 4 Tohoku University, 5 Kobe University, Japan
B-9-4  A Study On History And Construction Method Of The 3rd Naval Factory In Maizuru Part 1: History and Details Of The Factory
Masahiro Watabe¹, Yuriko Nakano² and Goki Takaoka¹
¹National Institute of Technology, Maizuru College, ²Maizuru Municipal Office, Japan

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

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

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

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

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

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

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

B-10-6  The Meaning of Representation at Kraton Yogyakarta Influence of Foreign Style Through the Level of Sacredness
Ami Arfianti¹, Josef Prijotomo² and Purwanita Setijanti²
¹Universitas Pembangunan Nasional Veteran Jawa Timur, ²Institut Teknologi Sepuluh Nopember (ITS) Surabaya, Indonesia

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

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

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

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

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

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

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

B-11-7 The states and problems of housing developments in the suburbs of Paris
Daisuke Hosoi and Kosuke Matsumara
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 Octacgonal Building Sites
Dai Whan An
Chungbuk National University, Korea

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

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

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

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

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

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

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

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

B-13-6 Analysis of Traditional Villages' Space amid Tourism Development and Study on Commercial Layout Optimizing Strategies Take the World Cultural Heritage Anhui Hongcun for Example
Xia Sun1, Zao Li1, Min Gao2 and Daren Wang1
1Hefei University of Technology, 2Shandong Tongyuan Design Limited Company, China
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 Ito1, Tadahisa Sakai2, Masahiro Onuma1 and Masaaki Tokairin4
1 Tohoku University, 2 Chido Museum, Tsuruoka, 3 Tohoku Institute of Technology, 4 Tokairin Appraisal, Japan

B-14-2 A Study on the architecture of cattle barns of Iriki fumoto village in Kagoshima
Susumu Mizuta1 and Mitsuyoshi Tsuchida2
1 Hiroshima University, 2 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-European 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 Moken Ethnic House: A Case Study in Tubpla Village in Phang Nga Province, Southern Thailand
Monsinee Attavanich and Hirohide Kobayashi
Kyoto University, Japan

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

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

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

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

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

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

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

B-15-7 Characteristics of opening of pitting made of larch panel according to heating by conveyor type microwave heating device
Cheul-Woo Park1 and Nam-Gi Lim2
1 Isone-Industry Research Institute, 2 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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<td>Fu Lan</td>
<td>Southeast University, China</td>
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<td>Qing Gao and Qian Wang</td>
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<td>Considerations on the principle of redevelopment and the real situation of Xuanan District of the old outer city in Beijing (China)</td>
<td>Haoyuan Cheng¹, Misao Kawai¹ and Shuji Funo²</td>
<td>¹ University of Shiga Prefecture, ² Nihon University, Japan</td>
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<td>B-16-6</td>
<td>Approaches to Preservation Districts for Groups of Historic Buildings by Hakodate City Government</td>
<td>Yuya Goto, Takeo Ozawa and Satoru Kaku</td>
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<td>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</td>
<td>Hwa-Yeon Lee</td>
<td>Seoul National University, Korea</td>
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  Young Min Koo and Sang-II Park  
  University of Incheon, Korea
- **B-17-2** A Design Proposal for Restoring the Historic Downtown in Seoul as a Theater of Memory  
  Won Pyo Jeon and Young-Min Koo  
  Inha University of Incheon, Korea
- **B-17-3** Duality in Drawing – Potential of discursive drawing responding to complex city –  
  Katsushi Goto and Vishwa Shroff  
  Independent Professional, Japan
- **B-17-4** The idea of dwelling: gender and sacred spaces for Chinese Moslem and Chinese non-Moslem families in Jakarta  
  Hendra Siwi Samsu, Yandi Andri Yatmo and Paramita Atmodiwirjo  
  Universitas Indonesia, Indonesia
- **B-17-5** Encounter Between Oblique and Perspective in The Late Joseon Dynasty  
  Hoyoung Kim  
  Georgia Institute of Technology, USA
- **B-17-6** Studies on Chinese Islamic Architecture Designated as National-Level Cultural Relics Preservation Units  
  Li Tao and Yukimasa Yamada  
  Tokyo Metropolitan University, Japan
- **B-17-7** A study on the relationship of street and architectural space in terms of Assemblage concept  
  Seung-Koo Jo and Chan-Hui Kim  
  TongMyong University, Korea

### B-18 Architectural Theory 2

- **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 Oubrerie's Work - focused on the Architectural Characteristics of Miller House  
  Gang-Moo Huh and Young-Min Koo  
  Inha University, Korea
B-18-4 Time Constructing Space
    Susilo Kusdiwanggo¹ and Lioni Beatrik Tobing²
    ¹ Universitas Brawijaya, Indonesia, ² University for Peace, Costa Rica

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

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

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

—that—
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 Liu¹ and Masaki Fujikawa²
    ¹ Toyohashi University of Technology, ² University of Tsukuba, Japan

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

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

—that—
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 Xu¹, Wei Wang², Yuhao Tu¹ and Jiangde Liu²
    ¹ Southeast University, ² Hunan University, China

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

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

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

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

B-21-1 Nam san 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  
Soochow University of Science and Technology, China

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

B-21-4 The report on the damaged situation of historical buildings in Khokana, Nepal after the 2015 earthquake  
Tomoko Morii¹ and Mitsuhito Miyamoto¹  
¹The University of Tokyo, ²Kagawa University, Japan

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

B-21-6 Result of the desalination of washed house's woods by the Great East Japan Earthquake  
Toshiei Tsukidate  
Yukijunbunka 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 Zaraaida, Dewi Larasati and Romi Bramantyo M  
Institute of Technology and Science Bandung, Indonesia

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

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

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

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

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

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

C-2-6 On Climate Buffering Function of Sunspace in Rural Dwellings in Cold Region
Qi Zhen¹ and Jianfei Chen²
¹Harbin Institute of Technology, ²Architectural 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 northeastern China with severe cold climate zones
Cheng Sun and QJ 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 Binya Sediso
Dongguk University, Korea

C-3-5 Evaluation of Energy-saving & Water-saving Benefits and Calculation of Carbon Emission of Prefabricated Building at Construction Stage --- Take a Prefabricated Housing Community in Beijing for Example
Yanyan Gao¹, Decai Wang¹, Zhi Zheng², Weimin Yao¹ and Zao Li¹
¹Hefei University of Technology, ²Design and Research Co., Ltd., ³Sino-ocean Group Holding Limited, China

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

C-3-7 Current Status of Existing Building Assessment (Inspection & Diagnosis) of Korea and Japan
Kwanjong Lee¹, Yuchia Liao¹, Ryo Sanuki¹, Makoto Tsunoda¹ and Sangjun Yi¹
¹Tokyo Metropolitan University, ²Kanto 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
Binya Sediso and Myung Sik Lee
Dongguk University, Korea
C-4-3 Cooling performance of spraying water automatically on the roof surface for thermal comfort in buildings in Manado
Jefrey Ignatius Kindangen
University of Sam Ratulangi, Manado, Indonesia

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

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

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

[Session 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
Yasuho 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

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, Shah Alam Budshah, Bikash Saud Ansary and Sung Kyun Kim
1 Seoul National University, Korea, 2 Hamdard University Bangladesh (HUB), Bangladesh, 3 A+ AA Architects, Dhaka, Bangladesh

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

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

[Session 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, Ke Chao Li, Yue Nan Xing, Teng Long Tan and Chuanpeng Ma
1 Changchun Institute of Technology, China, 2 Harbin Institute of Technology, China, 3 Bangkok Thonburi University, Thailand

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

C-6-3 Capability of Social Media in Structuring Collective Memory for Future Urban Design Project
Sushardjanti Felasari and M. Sani Roychansyah
1 Universitas Atma Jaya Yogyakarta, 2 Universitas Gadjah Mada, Yogyakarta, Indonesia
C-6-4 The analysis on satisfaction-impacted factors of urban brownfield landscape renovation: on the basis of Reasoned Action Theory
Lei Zhang1, Fei Lian2 and Yuning Cheng1
1Southeast University and Harbin University of Science And Technology, 2Harbin 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 Yamaga1, Koh Yamamoto2 and Ilji Cheong3
1Kanagawa University, 2JR 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 Yokoyama1, Kaoru Matsuo1, Takahiro Tanaka1 and Satoru Sadohara2
1Hiroshima University, 2Yokohama National University, Japan

C-7-2 Strategic Development of Green Infrastructure Implementation in Shrinking Cities
Takanori Fukuoka1 and Sadahisa Kato2
1Kobe University, 2Okayama 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 Jiang1,2 and Feng Lu1
1Chongqing University, China, 2Hokkaido 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 Kuno1 and Hiroshi Miyazaki2
1Kobe University, 2Kansai 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
C-8-5  A study on validity of physical quantitative indexes of river landscape evaluation - To provide foundation for urban planning
Rui Jiang¹, Daisaku Nishina¹, Jung-In Suh² and Takahiro Tanaka¹
¹Hiroshima University, Japan; ²Yeungnam 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

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

C-9-2  Perimeter Energy System applied for Transparent Organic Photovoltaics
Naoki Yoshimoto¹, Yuko Suenaga², Kishio Hidaka², Kazuya Mitsuji² and Yasuo Nagai²
¹Hitachi, Ltd.; ²Yamagata University, Japan

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

C-9-4  Alternative Water Sources for Non Potable Uses for the public housing in Singapore
Hycong 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

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

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

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

C-10-4  Study on the Design Method for the Museum Architecture Surface with Low Energy Consumption in Cold Regions in Response to the Climate
Wenqian Liu¹ and Hongyuan Mei¹,²
¹Harbin Institute of Technology; ²The Architectural Design and Research Institute of HIT, China

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

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

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

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

C-11-1 Study on Bake-out with Dilution-ventilation for Removal of Indoor Air Pollutions
Yang Lv1, Haifeng Wang1, Shanshan Wei1, Xiaoxiao Wu1 and Jing Liu1
1 Dalian University of Technology, 2 Dalian Municipal Bureau of land Resources and Housing, 3 Harbin Institute of Technology, China

C-11-2 Study on the Planning for the Fragrant and Healthy Indoor Air in the Natural Wood Interior Finish
Genki Izumi
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 Pramitasari1, Surjamanto Wonorahardjo2 and F. X. Nugroho Soelamii2
1 Institut Teknologi Nasional Malang, 2 Institut Teknologi Bandung, Indonesia

C-11-5 Formaldehyde Concentration Measurements of Pathological Examination Room
Koichi Ikeda1, Hiroki Iwama2, Torahiko Saeki2, Tshihiro Anai2, Huaipeng Tang2 and Shuto Enomoto1
1 Nihon University, 2 Shin Nippon Air Technologies Co., Ltd, Japan

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

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

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

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

C-12-3 Full-scale experiments on energy-saving modification for Malaysian urban houses
Tetsu Kubota1, Mohd Azuan Zakaria1, Makoto Ohashi1, Kanao Daiki1, Doris Hooi Chyee Toe2 and Mohd Hamdan Ahmad2
1 Hiroshima University, Japan, 2 Universiti Teknologi Malaysia, Malaysia

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

C-12-5 Green Building Strategy and Integrated Design - Practice of Huahui Research and Design Center
Xinghua Hu, Qifang 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 Trihamdani1, Kento Sumida1, Tetsu Kubota1, Han Soo Lee1 and Tran Thi Thu Phuong2
1 Hiroshima University, Japan, 2 Vietnam Institute of Urban and Rural Planning, Vietnam

C-13-3 The evaluation method of the thermal radiation in an urban canyon
Kotaro Nishimura, Hiroshi Miyazaki and Yuki Yagami
Kansai University, Japan
C-13-4 Research on the Influence of Piloti Ratio on Wind Environment in Residential Blocks by Coupled Simulation Method
Tianyu Xi¹, Hong Jin¹, Jianhua Ding² and Yu Zhang¹
1 Harbin Institute of Technology, 2 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 Ashrafual Alam, Kazuo Emura, Craig Farnham and Jihui Yuan
Osaka City University, Japan

D-1 Compact City ________________________________ Sept. 21 (Wed) 13:30-15:15

D-1-1 Side setback areas vs. backyards in residential zones in Japan and Iran – A comparative study of behavior and perceptions towards setback spaces based on morphological dissimilarities, case studies of Shiraz and Sapporo
Amir Shojai¹, Kaveh Fattahi¹ and Suguru Mori¹
¹ Hokkaido University, Japan, ² 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 Ogawa¹ and Madoka Chosokabe¹
¹ Tokushima University, ² Tottori University, Japan

D-1-4 Compact City 2.0: High Density Urban Settlement in the Era of Information and Communication Technology
M. Sani Roychansyah¹ and Sushardjanti Felasari²
¹ Universitas Gadjah Mada, ² 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 Yuyunyan Deng
China University of Mining and Technology

D-1-7 Research into Compact & 3D Form Design of Underground Space in Chongqing CBD
Yuan Hong¹ and Cui Xu²
¹ Southwest Jiao Tong University, China, ² 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 Yi¹, Lizao Liu² and Maoyan Xu¹
¹ Tsinghua University, ² 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
D-2-7 What Happened after the Severe Accident of Nuclear Power Station? - Case study of Recovery Plan and Actions for Fukushima, Minami-Soma City -
Aya Kubota¹, Akinobu Masumura¹, Misa Lee², Yoshino Ota¹, Sakura Kawata¹, Takeshi Kuromoto¹ and Takuya Hagiwara¹
¹ University of Tokyo, ² Odaka Recovery Design Center, Japan

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

D-3-1 City-scale Water Sensitive Design Guideline case study towards advancing sustainable stormwater management
Takanori Fukuoka¹, Maki Ryu¹, Mai Yoshitake¹, Atsuko Suzuki¹ and Natsuki Morii¹
¹ Kobe University, ² Delft University of Technology, ³ Tokyo University, ⁴ Architectural Design Institute, Japan

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

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

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

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

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

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

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

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

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

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

D-4-4 Study on Approaches to Communication Design in Cultivating the Civic Pride at International Sports Events
Zhang Yi¹,² Yoshitsugu Morita¹ and Ma Wajun³
¹ Guangdong University of Technology, China, ² Kyushu University, Japan

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

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

D-4-7 Large Scale Urban Design Practice Focusing on Sustainability - A Case Study of Qingdao Blue Silicon Valley Core Area, Shandong, China
Tetsuya Yaguchi
Waseda University, Japan
D-5 Public Space and Building 1  ____________________________ Sept. 21 (Wed) 13:30-15:15
D-5-1 Angular Segment Analysis to support the Reinvention of Religious spaces in Chiang Mai historic town
Nattasit Srirurak, 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 Sudirman¹, Siti Luzviminda Harum Pratiwi Setyawan² and Cherish Nurul Ainy²
¹ Seoul National University, Korea, ² Bandung Institute of Technology, Indonesia
D-6-4 Children’s Social Interaction Movement Patterns in Informal Environment as Investigation for Requirement of Children’s Playground in Yogyakarta Urban Area
Muhammad Hardyan Prastyanto, Nyssa Iga Putri and Yulia Pratiwi
Islamic University of Indonesia, Indonesia
D-6-5 Factors Affecting the Establishment of Car Free Day as the Presence of Public Urban Space
Putra Prawira 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 Suzuki¹, Reka Harã², Maho Sugiyama¹ and Jorge Almazan²
¹ Public Place Partners, ² Keio University, ² Hulic Co. LTD, Japan
D-7-3 The Visitor’s perception of Sunday Morning Market (Sunmor)’s qualities and the influence factors
Puja Kurniawan
Bandung Institute of Technology, Indonesia

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

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

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

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

D-8 Livable Community 1
__________________________________________________________________________ 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 Sadahara, Tsutomu Shiga and Hiromi Shimakita
Kyushu University, Japan

D-8-4 Resident Self-management Method in the Hiramatou Housing Complex, Kitakyushu city Municipal House: Research on Operation Method of Resident Self-management in Public House The 2nd report
Yohei Sadahara, 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 Shigemura1 and Tomohiro Mikasa2
1 Kanagawa University/Kobe University, 2 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 Wang1, Mu Guo1 and Zhou Yu1
1 Zhejiang University of Technology, China, 2 Bluetown Property Construction Management Group Co.Ltd, China

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

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

D-9-4 Originating Urban Climate Change Adaptation Planning Guidepost: Urban Landscape Sustainability Framework (ULSF), Quezon City, Philippines
Tabassam Raza1, Kuo Fan-Sheng2 and Joe F. Peralta1
1 Philippines School of Business Administration, Manila, Philippines, 2 Taiwan University of Science and Technology, Taiwan, 3 Philippine School of Business Administration, Manila, Philippines
D-9-6 Research On Morphology And Adaptability Of New-type Rural Community In Transition Period —— A Case Study Of Handan Area In Hebei, China
Jiayi Zhao, Shifan 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
Sept. 22 (Thu) 8:30-10:15

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

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

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

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

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

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

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

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

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

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

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

D-11-5 A study on the Cooperation between Local Community and Combined Elementary and Junior High School From the View Point Of Utilization of Local Resources - In a case of Kyoto Ohara Gakuin-
Risa Morita and Chie Murosaiki
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
Nayarat Tommit2, Rawee Hanpuchern2 and Nobuyuki Ogura3
1 University of the Ryukus, Japan, 2 Khon Kaen University (KKU), Thailand

D-11-7 Discovery Learning Model with a Scientific Approach in Understanding The Concept of Energy Efficiency for Students of Vocational High School in Indonesia
Usep Surahman, Mokhmad Syaorn Barliana and Johar Maknun
Universitas Pendidikan Indonesia, Indonesia
D-12 Sustainable Communities 1

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

D-12-2 A structural understanding of the management system of condominiums in the French metropolitan area
Hana Sekikawa1 and Mitsuo Takada2
1Okayama University, 2Kyoto 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

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 Hu1,2, Weiyi Cui1,2, Qingtao Li1,2, Siqi Huang1,2, Li Yu1 and Zao Li2
1Cardiff University, UK, 2Hefei 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 Yamanaka1, Mitsuhiko Sato1 and Yosuke Fujimoto2
1Niho University, 2Asano 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

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

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

D-14-4 Study on the Impact of Songhua River on Thermal Environment in Summer in Harbin City
   Zheming Liu¹, Xudong Zhao¹² and Hong Jin¹
   ¹ Harbin Institute of Technology, China; ² University of Hull, UK

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

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

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

D-15 Living Environment 2

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

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

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

D-15-4 Analysis of actual conditions on a seasonal second residential base in Ulaanbaatar city
   Suguru Mori¹, Solongo Jamityan dorj² and Rie Nomura¹
   ¹ Hokkaido University; ² YKK AP Inc., Japan

D-15-5 A Comparison Study in Repair Process of Communal Area in Residential Housing Between Japan and China
   Xueqi Cui¹, Yuchia Liao¹, Makoto Tsunoda¹, Sangjun Yi² and Ryo Sanuki¹
   ¹ Tokyo Metropolitan University; ² Kanto Gakuin University, Japan

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

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

D-16 Urban History 1

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 Feng¹²
   ¹ China Academy of Urban Planning & Design; ² Tsinghua University, China
D-16-4 Integrated Analysis On The Cultural Landmarks Of A Chinese National Historical And Cultural City: Dose Recognition Degree Equate Aggregation Degree
Min Yin1, Yangjin Chen1, Yueping Zhou1, Guangzhou Li1 and Jiangang Xu1
1Nanjing University, 1Suzhou Planning & Design Research Institute CO.,LTD., Suzhou, 1China Design Group CO.,LTD., Nanjing, China

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

E-1 Structural Experiment/Analysis

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

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

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

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

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

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

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

E-2 Structural Design

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

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

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

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

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

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

E-3 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 Fujita1, Toshikazu Hanazato2, Subedi Jishnu3, Rajbhandari Suman4 and Takahiro Toyoda1
1 The University of Tokyo, Japan, 2 Mie University, Japan, 3 Center of Resilient Development, Nepal, 4 Pokhara University, Nepal

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

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

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

E-4 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 Sakamaki1, Nobuyoshi Michiba1, Keisuke Kagawa1, Mayu Nakayama1, Seiji Takanashi1 and Yoshimitsu Ohashi1
1 Hoseplus Corporation, 2 National Institute of Occupational Safety and Health, 3 Tokyo City University, Japan

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

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

E-4-4  Structural Design of Urban Wooden Structures Using New Fire-resistant Laminated Timbers
Kouji Fukumoto
 TAKENAKA Corporation, Japan
E-4-5  Adaptive Design of Light-Frame-Wood Structure of Rural House in Northeast Forestry Areas  
Xuesong Wang¹, Tiejun Li² and Daiyan Zhang¹  
¹ Harbin Institute of Technology, ² 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