

DCEE4

Preliminary Program

The 4th International Workshop on
Design in Civil and Environmental Engineering

Taipei, Taiwan

October 30-31, 2015

Conference Chairman

Shang-Hsien (Patrick) Hsieh

Shih-Chung (Jessy) Kang

Organizer

National Taiwan University

Supporting Organization

Ministry of Science and Technology

Pre-Conference Workshop

Sustainable City – A Hundred Years from Now

What is a city and how do we live a hundred years from now?

The buildings and infrastructure we build stays with us for decades, even hundreds of years – are we able to imagine the cultures and citizens who will inhabit those environments? Are we equipped to design for them?

How did it evolve? What kinds of citizens will inhabit it? What kinds of new cultures and behaviors has it fostered? What will be the relationship between humans, animals, plants and the built environment?

The workshop intends to inspire, and provide tools, for long-term creative thinking – allowing us to imagine futures we want, and don't want. With a selection of Futures Studies and Design methods, the workshop aims to provide the participants an introduction to some from the wide range of tools, to create and build better futures.

Workshop Facilitators:

Pirjo Haikola,

Assistant Professor, IADE Creative University Lisbon

Sessional Lecturer, School of Arts, Design and Architecture, Aalto University Helsinki

Researcher, Centre for Spatial and Organizational Dynamics, University of Algarve Faro

Mei-Mei Song,

Assistant Professor, Graduate Institute of Futures Studies, Tamkang University

October 29th, 2015 (Thursday)

Room 405, Civil Engineering Research Building

09:00 – 09:10	Opening Remarks
09:10 – 09:30	Thinking for the Future
09:30 – 10:00	Imagining and Impacting Futures – Practicality of the Fantastic
10:00 – 10:30	Coffee Break
10:30 – 10:45	Futures Tables and Assignment
10:45 – 12:00	Participants Work in Groups on the Assignment
12:00 – 13:00	Lunch
13:00 – 13:10	Intro on How to Brainstorm, Organize the Thoughts
13:00 – 14:00	Groups Brainstorm to Create Tables
14:00 – 14:10	Intro on Scenarios and the Next Task
14:10 – 15:30	Groups Work on the Scenario and Design Task
15:30 – 16:00	Coffee Break
16:00 – 17:30	Presentation of the Outcomes by Groups
17:30 – 17:45	Closing Remarks

Program Overview

October 30th, 2015 (Friday)

09:00 – 09:20	Opening / Opening Address
09:20 – 10:00	Keynote I / Hideyuki Horii
10:00 – 10:20	Coffee Break
10:20 – 11:00	Keynote II / Eduardo Miranda
11:00 – 12:20	Paper Session I
12:20 – 13:20	Lunch Break
13:20 – 15:00	Paper Session II
15:00 – 18:30	Technical tour
19:00 – 21:30	Banquet

October 31th, 2015 (Saturday)

09:00 – 09:40	Keynote III / Ying-Chih Chang
09:40 – 10:00	Coffee Break
10:00 – 11:00	NTU campus tour
11:00 – 12:20	Paper Session III
12:20 – 13:20	Lunch Break
13:20 – 14:40	Futures Workshop I
14:40 – 14:50	Coffee Break
14:50 – 16:10	Futures Workshop II
16:10 – 16:30	Closing Ceremony
16:35 – 17:30	DCEE Committee meeting

Conference Information

Date

October 30-31, 2015

Venue

Oct 30		Civil Engineering Building Room 224, 2F, No. 1, Sec. 4, Roosevelt Rd., Taipei [Google Map]
Oct 31	before 11:00	Civil Engineering Building Room 224, 2F, No. 1, Sec. 4, Roosevelt Rd., Taipei [Google Map]
	after 11:00	Civil Engineering Research Building Room 405, 4F, No.188, Sec. 3, Xinhai Rd., Daan Dist., Taipei [Google Map]



Please click on the following link to view a detailed map

<http://goo.gl/m5NyBj>

Conference Special Events

Banquet

19:00-21:30, October 30th (Fri.), Tuan Yuan Restaurant,
B2 of Eslite Spectrum Songyan, No.88 YanChang Rd., Taipei.

(高記小團圓 台灣台北市信義區菸廠路 88 號 B2)

Technical Tour

Oct. 30th 15:00-18:30

- Guild Tour
- Talk Guided- about Social Design
- Exhibition



Internet Access

Account: To be announced.

Technical Program

Keynote I

9:20-10:00, Oct 30th

Room 224, Civil Engineering Building

Hideyuki Horii

Designing Innovation Workshop : i.School UTokyo

Keynote II

10:20-11:00, Oct 30th

Room 224, Civil Engineering Building

Eduardo Miranda

Performance Based Design

Paper Session 1

11:00-12:20, Oct 30th

Room 224, Civil Engineering Building

Konstantinos Gkoumas, Francesco Petrini, Franco Bontempi

Design for Robustness, Resilience and Anti-fragility in the Built and Urban Environment: Considerations from a Civil Engineering Point of View.

Julia Ratajczak, Giada Malacarne, Daniel Krause, Dominik T. Matt

The BIM Approach and Stakeholders Integration in the AEC Sector – Benefits and Obstacles in South Tyrolean Context

Meidi Chen, Shang-Hsien (Patrick) Hsieh

Development of an Interdisciplinary Participatory Design Course with Futures Thinking for Engineering Students

Hervé Capart

Student capstone design of a timber bridge with input from professional

Paper Session 2

13:20 – 15:00, Oct 30

Room 224, Civil Engineering Building

Gabriele Pasetti Monizza, Dominik T. Matt, Cristina Benedetti

Parametric and Generative Design Techniques for Process Efficiency in Building Industry: The Case Study of Glued Laminated Timber Industry

Patrick Dallasega, Elisa Marengo, Werner Nutt, Luka Rescic, Dominik T. Matt

Design of a Framework for Supporting the Execution-Management of Small and Medium sized Projects in the AEC-industry

Lotte Marianne Bjerregaard Jensen

Learning from the Masters – Architectural History and history of technology and architectural engineering in relation to structural design education.

Yu-Lien Chang, Ching-Mei Tseng, Shih-Chung Kang

The Development and Validation of Self-Efficacy Scale in Learning of MOOCs :An Example from the Engineering Graphics Course

Giuseppe Longhi, Linda Comerlati

An Urban regeneration consistent with EU principles: the case of Northeast Italy region

Keynote III

9:00 – 9:40, Oct 31

Room 224, Civil Engineering Building

Ying-Chih Chang

Structural design for best integration with Architecture

Paper Session 3

11:00 – 12:20, Oct 31

Room 405,

Civil Engineering Research Building

Franco Bontempi, Konstantinos Gkoumas, Stefania Arangio, Francesco Petrini, Chiara Crosti

The long way towards a sound framework for structural design: 10 years of experience in Rome

Zito Tseng, Shih-Chung Kang

How to Educate Future Engineers? A Case Study of an Engineering Design Course

Yi-Fen Li, Ci-Jyun Liang, Shih-Chung Kang

Experience and Reflections on a Global Collaborative Course, Sky Classroom – Global Project Team Course, from National Taiwan University

Hervé Capart, Tsung-Hsuan Hsu

Cooperative design and construction of wood bridges