International Student Design Competition
Ontological Design in Future Housing and Space
Website: www.iaps2011symposium.kr | **Contact**: odc.iaps2011@gmail.com

CO-ORGANIZERS

Hulya Turgut, Bahcesehir University, Turkey

Moo-Hyuck Choi, Kyungpook National University, Korea

Takazi Okuda, Oklahoma State University, U.S.A

Mark Del Aguila, IAPS-Environment & Gerontology Network Coordinator, Australia

INTRODUCTION

The competition is planned in conjunction with the CSBE (Culture & Space in the Built Environment) and Housing networks of the International Association of People-Environment Studies (IAPS) Joint International Symposium, 2011 entitled "Continuity and Change of Built Environments - Housing, Culture, and Space across Life Spans". The competition offers students the opportunity to foster a broad understanding of designers' contribution to human lives, encouraging students to consider critical social, cultural, and environmental issues facing contemporary civilization.

Around the world, complex and drastic changes are progressing in demographic, economic, social, cultural, technological, and environmental conditions giving serious influences not only to lifestyles of people but also to housing environments in conjunction with lives and cultures.

- Demographic – Lower birthrates, ageing populations, shifting dependency ratios, increasing urbanization, population health and obesity.
- Cultural & Social – Cultural and multicultural contexts, workforce mobility and participation rates, changing leisure and lifestyles, evolving social structures, globalization of space.
- Technological – innovated technology, building intelligence and robotics for living.
- Environment – energy usage, eco-city, green communities, low carbon building.

In these challenges, existing housing and housing environments which have accumulated vernacular culture and values are obliged to face being obsolete and being laid behind in new needs of the times, which indicates that designers of housing and housing environments should have insights and foresights on changes effecting future lives and environments with considerations of the effects on people and populations.

Human beings live in a world of intentional constraints profoundly shaped by past and present, and which in turn limit future potentialities. The unforeseen legacy of design changes the future, affording opportunities by adding and removing possibilities. Housing environments, urban forms and building types, are constructed for anticipated actions therein and presented as universally given. For better or worse, design's influence is of such a profound order that it rivals human reason itself in its efficacy and pervasiveness. Therefore, an awareness of defuturing constructedness to disclose bias and direction of that which is designed and how it is embedded in built environments and space is a critical method of ontological design.[1]

An ontological approach characterizes design as the embedding of intention. Intention is in the artifact itself, not in any human using it as an instrument of his or her own (human) intention. Enabling natural light into a space or improved insulation to reduce energy consumption is an intention of the design. An un-intended intention of housing design and suburbanization in the last century has been a loss of independence among older adults. With increased complexity of rooms and spaces in housing environments and increased distances in urban sprawl, completing core activities of daily living is more challenging. Further, as life spans extend and populations age, there are more older old and an increasing prevalence of persons with cognitive and/or physical impairments who require assistance to complete core activities of daily living.

Ontology emphasizes the agency of designed artifacts, and specifically how designed artifacts not merely affect, but in some ways effect our environment and life worlds. It downplays human rational agency and

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[1] abstracted from the Ontological Design Cheat Sheet by Jeffery Bardzell, School of Infomatics, Indiana University [www.soic.indiana.edu]

examines design theory and approaches to design through complex relational ties among humans, ecologies, and designed artifacts. Housing design requires delicate consideration of not only global changes but also concerns in localized situations now and into the future. Drawing from context, designers should ruminate on how design can affect and effect the environment and current and future dwelling in living environments.

In this respect, all design disciplines relating to settlement: housing, community, landscape, urban design, interior design, etc., have to seek integrated solutions to respond to future challenges in their own ways. To provide spaces that meet the functional criteria for each discipline but are not discrete. Housing connects and intersects disciplines. Based on individuals understanding and approach to the project, it is the responsibility of the individual designer (design team) to connect interdependent disciplines. Practically, from their given starting point, they have to identify how design disciplines can contribute to enabling continuity of existing housing environments facing changing circumstances and/or ensuring new designs find optimized solutions to accommodate future known and unknown cultural, social, demographic, technological and environmental challenges.

ELIGIBILITY

The competition is open to all students in any field of design, technology or behavioral studies-architecture, urban planning, landscape architecture, interior design, industrial design, psychology, IT, communication, etc. Entries will be accepted for individual students as well as teams of no more than four students. Only students are eligible to enter or be team members, and it is highly recommended to all entries to be interdisciplinary in their approach.

REGISTRATION & SUBMISSION FEES

Registration for the competition is free and must be completed through the competition web site by Midnight Korean time on Thursday, June 30th 2011.

Registration is free, however a submission fee may be payable when the final design files are submitted.

- There is no submission fee if the student or at least one member of the team is a member of either IAPS, EDRA, MERA, EBRA or PAPER.
- Where the entry originated from a studio supervised by a member of IAPS, EDRA, MERA, EBRA or PAPER, a discounted submission fee of EUR €20 will apply.
- The full submission fee of EUR €30 will apply to all other entries. .

SUBMISSION REQUIREMENTS

An intention of the competition is to make students aware that research is a fundamental element of any design solution. Coping with described issues is a matter of cooperation between design and all disciplines relating to people-environment studies. Therefore, each submission is required to submit a design essay on the ontological philosophy, people-environment research background, and the design's relevance to future housing and space. Note, a draft of the design essay is required two weeks after competition registration closes (refer key dates below).

The final Submission upload must contain the following files in a single (zip) folder not exceeding 20MB.

- Completed submission information cover page
- Design Essay
- Digital Presentation Board

All submissions must be suitable for black-and-white reproduction. Students may use color if desired, but must ensure that distinct colors will be readily distinguishable tones when reproduced in black-and-white.

Information Form

- Registration Number
- Title of project
- Name of entrant (team members), email address(es) and educational affiliation(s).
- Identification of entrant(s) or supervisors membership of IAPS, EDRA, MERA, ABRA or PAPER.

The names of participants or supervisors, their affiliations or any implication must NOT appear in the design essay or on the digital board.

Design Essay

- An essay (500 words in English) describing the research background and how the design could be a reasonable solution for the future, in the localized situation.
- Keep in mind that your designs should graphically convey the design solution as much as possible.
- The design essay is to be submitted in both a high resolution Portable Document Format (PDF) file AND as a Microsoft Word document (DOC or DOCx) file.

Digital Presentation Board

- Submission must be on one portrait orientation A1 size digital board (board size, 594mm x 841mm).
- The digital board should be submitted as a high resolution Portable Document Format (PDF) file or as a JPEG, TIFF or GIF file (at least 150 DPI Image).

Each submission must be registered before midnight June 30th and submit a draft of their design essay before midnight on July 15th 2011. Final submission is to be completed by midnight Korean time on August 31st through the competition Web site at www.iaps2011symposium. No additional edits, uploads, or changes can be made after the final submission closing time.

EVALUATION CRITERIA

The focus of the competition will be on the design and idea to suggest latent and accessible future living design elements for the renewal of existing housing and housing environment as well as the creation of new living environments. The competition is oriented towards methods for adapting regional and vernacular values into new and existing housing continuously. Furthermore, the competition strongly encourages participants to research references that relate to the entry and topic of the competition, and to work in interdisciplinary collaboration. The final submission should demonstrate innovative solutions through the research (the essay) and design with consideration of housing and housing environments:

- Design to regenerate existing housing for future living
- Innovated technology for the intelligent housing
- Living design to encompass future lifestyle
- Future living designed to optimize localized circumstances
- Living design to cope with environmental challenges

In addressing specific challenges of the design, submissions will be evaluated as follows:

- Appropriate approach to treating issues
- Response to issues with specific solution in context
- Demonstration of idea or suggestion through the design
- Implication for the future design of dwelling environment and space
- Original, clear and comprehensible design

AWARDS

Winning students will receive cash prizes totaling up to EUR €7,000, with distribution expected as follows:

- First Place: EUR €3,000
- Second Place: EUR €2,000
- Third Place: EUR €1,000
- Honorable Mentions

On September 30th 2011, the shortlisted honorable entries (potential award winners) will be posted on the competition website. The winning entries will be announced on October 10 at the opening of the International Symposium in Daegu, Korea, and exhibited during the symposia (October 10-14, 2011).

KEY DATES

Competition officially announced	**01 Decmber 2010**
Deadline for competition registration	30 June 2011
Deadline for draft Design Essay submission	**15 July 2011**
Announcement of acceptance of Design Essay on website	31 July 2011
Deadline for submission of entry materials	**31 August 2011**
Announcement of Honorable Entries on Web site	30 September 2011
Announcement of Award winners at 2011 IAPS Symposium	**10 October 2011**
Display of winning entries at 2011 IAPS Symposium	10-14 October 2011
As approved, publication of winning designs with comments	**December 2011**