INTERNATIONAL CONFERENCE

BIO DIGITAL
ARCHITECTURE & DESIGN

BARCELONA, 1st-3rd JUNE, 2011
INSCRIPTIONS (FREE): yespina@uic.es
MORE INFO: www.biodigitalarchitecture.com

30th May-1st June - WORKSHOP
Biodigital Architecture Workshop

1st-3rd June - LECTURES ABOUT:
- Biodigital research, teaching and professional experiences
- Intensive aesthetics
- Fabricating the biodigital
- Topological and genetic architecture
- Bio-logic and nature’s geometry in architecture
- Genetic architecture visualization
- Natural processes
- Fusion of computation and genetics in design
- Animation Methods in Urban Planning
- Digital conception and fabrication: New morphogenesis
- Towards a bionic reality

4th June
Visit to the Sagrada Familia of Gaudi, Barcelona

5th June
Environmental World’s Day: Different activities
SCHEDULE (provisional)

Monday-Wednesday, 30th May - 1st June
Biodigital Architecture Workshop (Workshop Directors: Alessio Erioli, Aref Maksoud, Alejandro Muiño)

Wednesday, 1st June
18:00 h. Registration for assistants and speakers
18:30 h. Welcome Notes and Introduction to the Conference
Pere Alavedra, UIC Rector / Frederic Marimón, UIC Vice-Rector for Research
Vicente Sarrablo, ESARQ (UIC) Director / Judith Urbano, ESARQ (UIC) Vice-Director for Academics
Alberto T. Estévez, Conference Chair, Biodigital Architecture and Genetics

Mauro Costa, 1st Doctor of the Genetic Architectures Ph.D. Programme, Biological analogies in architecture and design

20:00 h. Dinner and gifts for speakers

Thursday, 2nd June
10:00 h. RESEARCH: 4 sessions (more speakers, order and titles to confirm)
Alessio Erioli, Intensive aesthetics
Diego Cuevas, Biodigital research, teaching and professional experiences
Antonio Vacca, Topological and genetic architecture

11:45 h. Coffee break

12:15 h. RESEARCH & roundtable discussion: 3 sessions (more speakers, order and titles to confirm)
Sergio Hidalgo, Bio-logic and nature’s geometry in architecture
Daniela Frogheri, Digital aggregations and biological knowledge
Julian Ardia, Possible imaginary worlds

14:00 h. Lunch

15:00 h. TEACHING: 4 sessions (more speakers, order and titles to confirm)
Aref Maksoud, Genetic architecture visualization
Lamila Simisic, Architecture of the clash
Alejandro Muiño, Natural process

16:45 h. Coffee break

17:15 h. TEACHING & roundtable discussion: 3 sessions (more speakers, order and titles to confirm)
David Anton, Genobits: Processes' reactions in architecture of systems
Elif Erdogan, Fusion of computation and genetics in design

Friday, 3rd June
10:00 h. PROFESSION: 4 sessions (more speakers, order and titles to confirm)
Mireia Luzárraga, Form, energy and performance
Arne Riekstins, Animation Methods in Urban Planning

11:45 h. Coffee break

12:15 h. PROFESSION: 3 sessions (more speakers, order and titles to confirm)
Pedro Sousa, Experiences like researcher, teacher and professional in biodigital architecture
Gonçalo Henriques, Digital conception and fabrication: A new morphogenesis

13:30 h. End Keynote Research's Lecture:
Rosa Cervera & Javier Pioz, Towards a bionic reality

15:00 h. Lunch

16:00 h. End Keynote Profession’s Lecture:
Rosa Cervera & Javier Pioz, The Bionic Tower

17:30 h. End roundtable discussion

Saturday, 4th June
11:00 h. Visit to the Sagrada Familia of Antoni Gaudi in Barcelona

Sunday, 5th June
5 de junio, Dia Mundial del Medio Ambiente
2011, Año Mundial de los Bosques

12:00 h. Acciones participativas para potenciar la biodiversidad
Campus de la UIC
Plantación de árboles y arbustos
Aperitivo de dieta mediterránea

Conference Organization:

Research: Genetic Architectures Research Group & Ph.D
Teaching: Biodigital Architecture Master's Degree
Profession: Genetic Architectures Office, Barcelona

Inscriptions Secretary (free): Yolanda Espina Pahi yespina@uic.es
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In the twenties and thirties of the 20th century, when some architects were disposed systematically to configure modern world, they did it stimulated for a cultural pressure, for a correct adaptation to new times, and fighting for minimum conditions of human existence. On the other hand, today the urgency is bigger. It is about the entire planetary subsistence. The question is not any more a simple caprice, neither an intellectual necessity, neither sensibility for losing less favoured people. Now, the necessity is global, without reservations of classes, races or religions. The whole planet is in front of danger of no-sustainability for all mankind.

By chance, now in this crucial moment, are offered new techniques of an enormous potential: biological techniques and digital techniques. And even fusion of both, in something that can be named biodigital architecture. One that has incorporated the advantages proportioned by the understanding of genetics in both ways, the biological and the digital way, that permit to face with hope some continuity also worthy, but this time a dignity for all The Earth.

Then, as the ones that made efforts to break with the ancient classical tradition to found the new modern tradition, we are in front of the challenge of creating the future tradition of biodigital and genetics. For this is necessary that people work on three key elements: research, teaching and profession. This is exactly what we have been doing in Barcelona from 2000, with the Genetic Architecture Research Group and Ph.D. Programme, with the Biodigital Architecture Master’s Degree and with the Genetic Architectures Office. There we learn & teach, we make research and we design: Knowing that there are sufficient differential parameters to predict a complete age’s change. Today, after the first decade of our new Century, it is time to explain, to check, to discuss, fascinations, inspirations, experiences, that the graduates of these Research Group, Master’s Degree and Architecture Office have done in the developing of this biodigital architecture and genetics, up to now.

Alberto T. Estévez
Conference Chair