

## Newsletter #3 2009

### MAG In BioDigital Architecture Master - Barcelona-Spain

MAG LAB were invited by Dr. Alberto ,T Estevez the founder and Prime director of "ESARQ" Universitat internacional de Catalunya director of PHD and Master Programs of Genetic-Biodigital Architecture, to do studio in Biodigital Architecture Master of 2009, under the titled of " studio Information Systems-Digital Architectural Tools Towards New Architetural Forms And Tectonic "



The studio commenced in 2nd February and was held by Professor Aref Maksoud the manager of MAG LAB a part of the Maksoud Architectural Group.

**Escola Tècnica Superior d'Arquitectura -ESARQ 2009**

[www.biodigitalarchitecturaldesign.blogspot.com](http://www.biodigitalarchitecturaldesign.blogspot.com)

# MAG-LAB 2009

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### MAG In BioDigital Architecture Master - Barcelona-Spain

The Studio was held over a period of 4 weeks and was An exploration into parametric design illustrating the various uses of the information systems and digital tools and was directed Towards the understanding of New Architectural Form and Tectonics and provided an Understanding of the digital tools as a design strategy.

Instructor: Aref Maksoud MAG-LAB(UAE-SYRIA-SPAIN)



**Escola Tècnica Superior d'Arquitectura -ESARQ 2009**

# MAG-LAB 2009

**The main focus of the studio was the information that could be obtained from living nature as most Biological systems and how we could learn from connections and transitions between systems and sub-systems of biological entities.**

**Such a study could also benefit the understanding self-organization as a dynamic and adaptive process through which systems can be achieved without external control.**

**Explaining the form - finding as a design method deploys the self-organization of material systems under the influence of extrinsic forces to achieve optimization towards a required range of performance capacity.**



**Studio Master : Aref Maksoud**

**The studio concentrate on two common tasks of form finding :**

- 1 - The generation of the form to be constructed .**
- 2 - The realization of the building in the desired form .**

**At the end of 4 weeks the students presented the final work of the studio to an international jury .The progress made by these students over the 4 weeks period was quite outstanding.**



**Jury : Left To Right**

**Prof . Dr.Alberto ,T Estevez “ Director of PHD and Master programs of Genetic-Biodigital Architecture”**

**Prof . Muhsen Maksoud “ General director of MAG and the chairman of Arabian international university-  
Damascus, Syria**

**Prof . Enric Ruiz Geli “Cloud9 Architecture Studio”**



**Left To Right**

**Prof . Enric Ruiz Geli “Cloud9 Architecture Studio”**

**Prof . Aref Maksoud “MAG LAB - Studio Master”**

**Prof . Muhsen Maksoud “ General director of MAG”Maksoud architectural group “and the chairman of Arabian international university-Damascus, Syria**

**Architect Muhsen Maksoud had discussion with Dr.Alberto Estevez.And Architect Enric Ruiz Gelly , The Jury had focussed on impact of digital technologies on professional practice and its associated services. The jury then gave advice about using the digital technologies in professional practice to generate strategies for design ,to generate the geometric systems and patterns and the format .These strategies would ofcourse be dependent on the information gained from research into bioconcepts.**



**Left To Right**

**Prof . Dr.Alberto ,T Estevez “ Director of PHD and Master programs of Genetic-Biodigital Architecture”**  
**Prof . Muhsen Maksoud “ General director of MAG and the chairman of Arabian international university-  
Damascus, Syria**  
**Prof . Aref Maksoud “MAG LAB - Studio Master”**

**The Jury discussed the parametric approach to digital design explaining how is the model defined as a set of geometric relationships or associations that are applied through parametric expression constraints.**



**employing the exploration of parametric variables to understand the behaviour of such a system and then uses this understanding to strategise the systems response to environmental conditions and external forces .**