

Digital

Installing software to your brain
Tools as strategies for

Architectural Design

Parametric design

18-22.09.2011

Workshop instructors

Prof.M.Arch Aref Maksoud

MAG LAB Director, Authorized Training Center of McNeel (Robert McNeel & Associates- United States) in Middle East

Visitor professor of architecture, College of architecture, fine arts and design-AIU Arab International University-Syria

Assistant professor of Biodigital Master and PHD program, ESARQ- UIC-(Universitat internacional de catalunya), spain

Guest lecturers

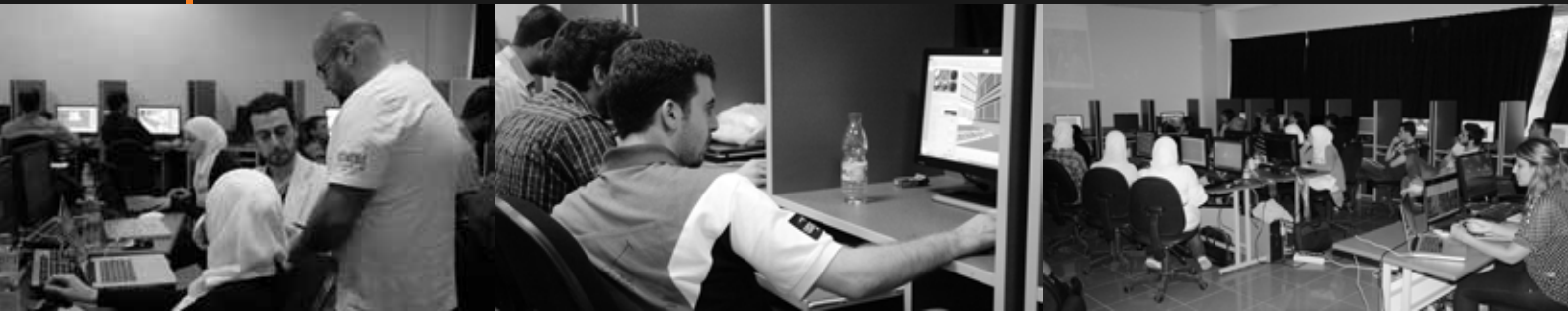
Dr.Prof. Mohamad Yasser Al aioubi (Head of industrial department in AIU-Arab International University)

Arch. Noelle Halabi, Deakin University Australia (MAG LAB -barcelona/spain - Damascus/syria)

Artist Anna Debrowska, Warsaw University, University College London -MAG LAB

Synopsis

The workshop "Digital tools as Strategy for architectural design" organized by MAG LAB in collaboration with AIU, was an exploration of the potential, range and capacity of this broad world digital tools are not just intended for drawing but as consistent and powerful design strategy Ideas, processes, strategies and conditions interacted and intertwined throughout the whole design path, in order to translate information processing into a special architectural outcome



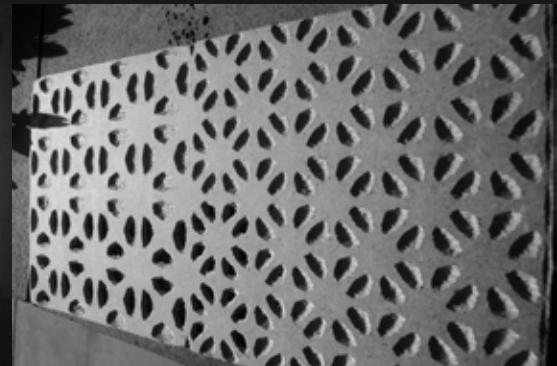
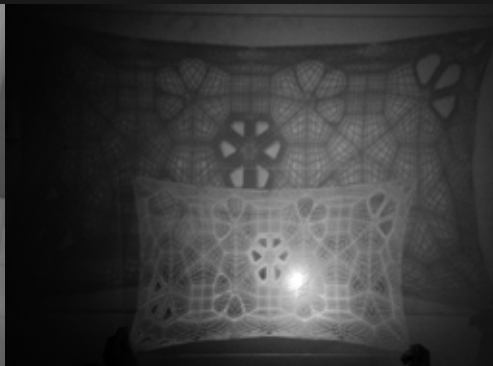
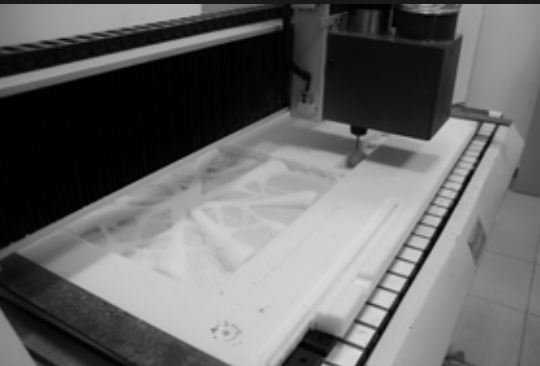
Workshop structure

Students attended configured lectures followed by Autodesk® 3D Studio Max tutorial classes which interweaved practical work throughout a 5 day intensified workshop. They were introduced to the concept of Pavilion design; its concept, definition & practicality
The final presentation was presented with jury critics and evaluation



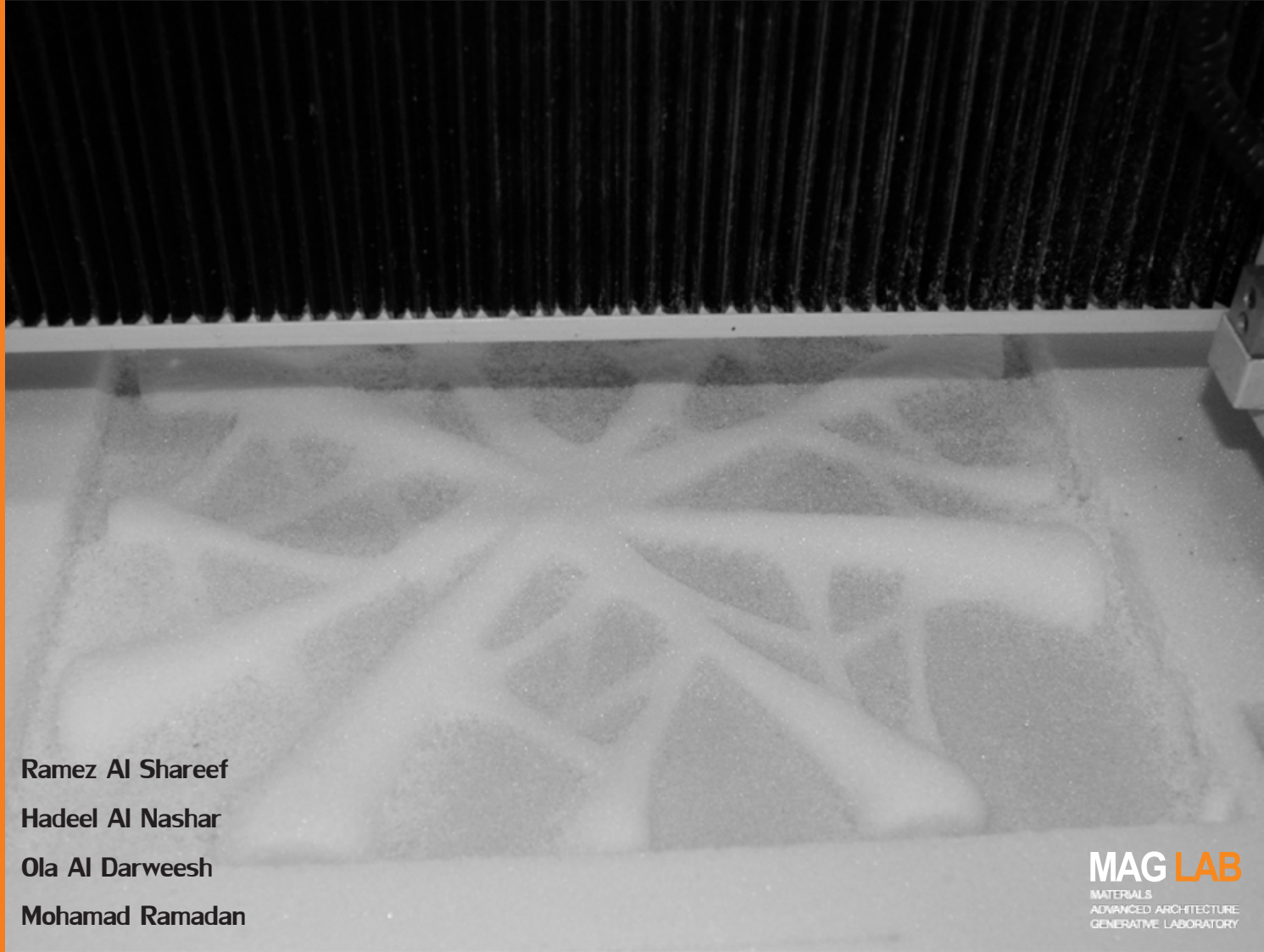
The workshop was conducted in groups; through trial and error processes they were able to create an architectural “skin” (an enveloping system with structural capacity, able to generate space and mediate environmental conditions via information processing). This was done based on morphogenetic strategies, conditions, and information extracted and translated from their investigations and experimentations

The students were introduced to digital fabrication processes such as the laser cutter, 3D printer and the CNC machine. They were able to produce experimentations of their prototypes based on their pavilion design using the CNC machine. These experimentations were very useful because the students gained an insight on the reality of the construction process



Projects



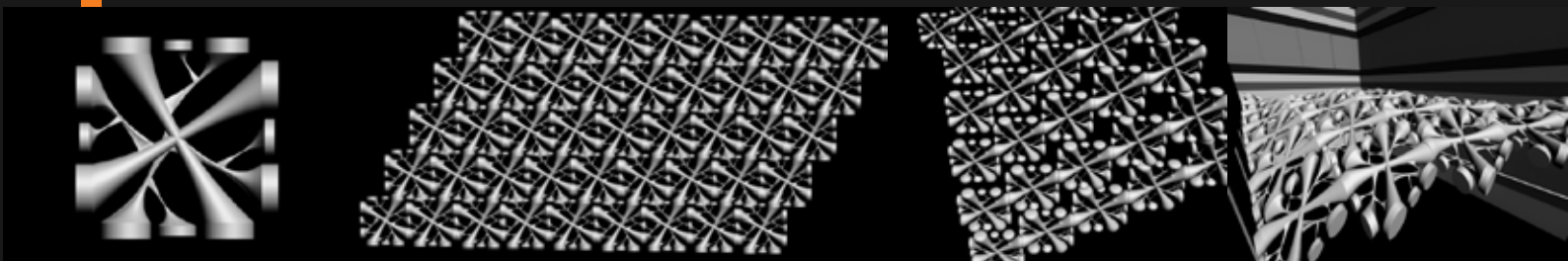
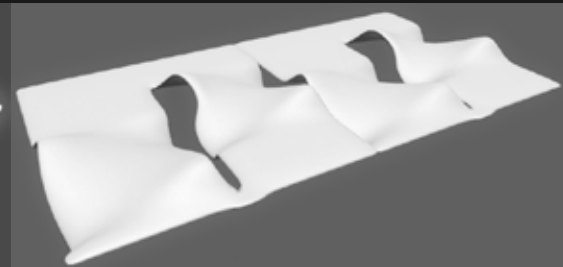
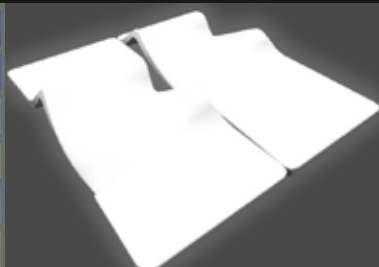
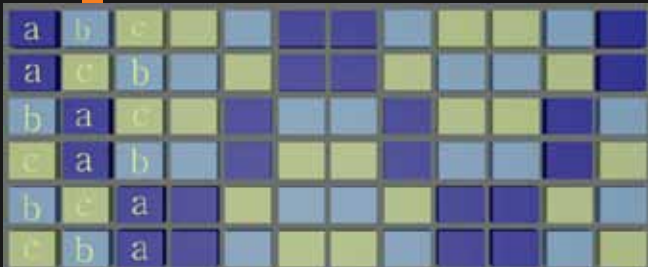


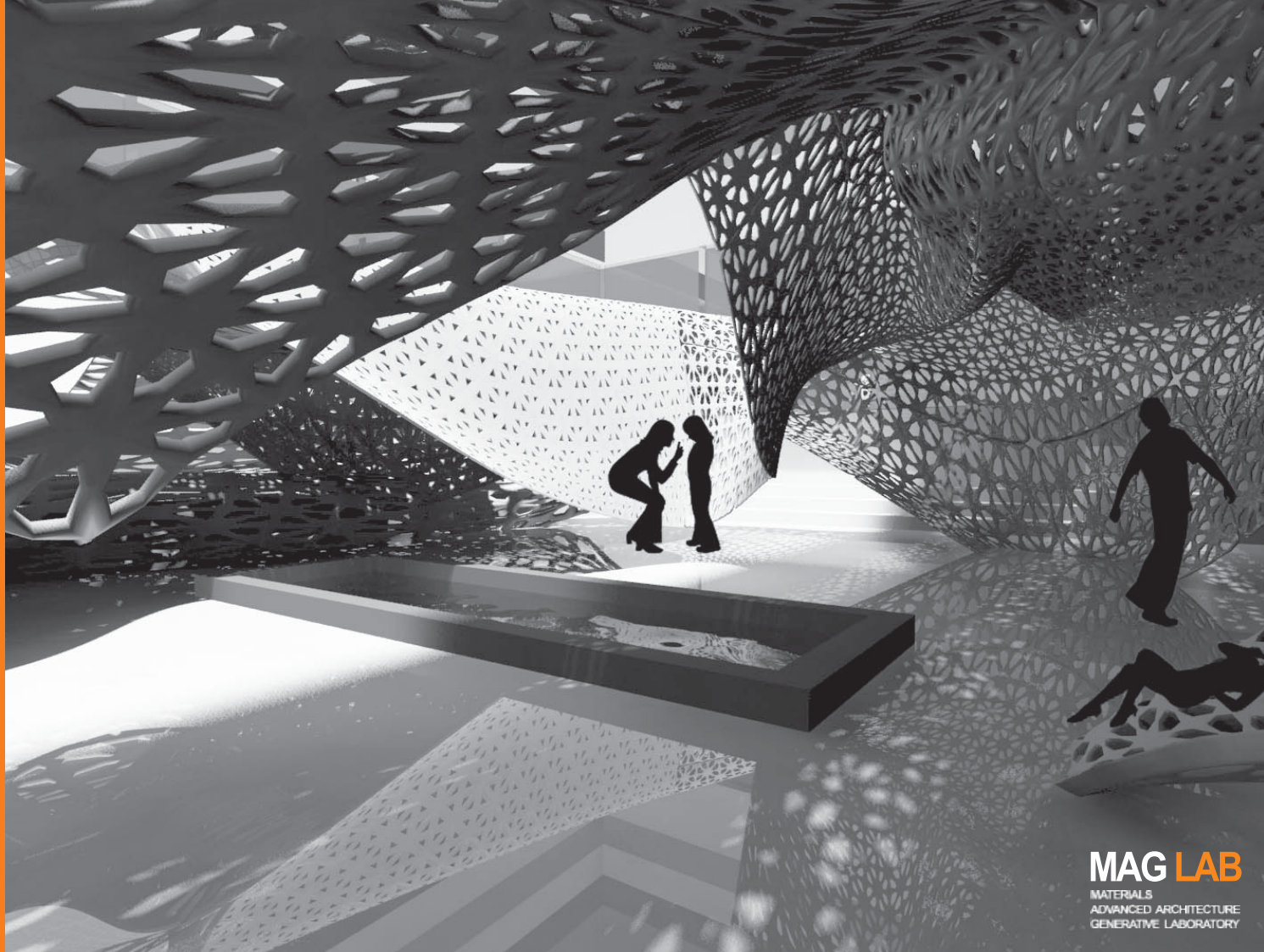
Ramez Al Shareef

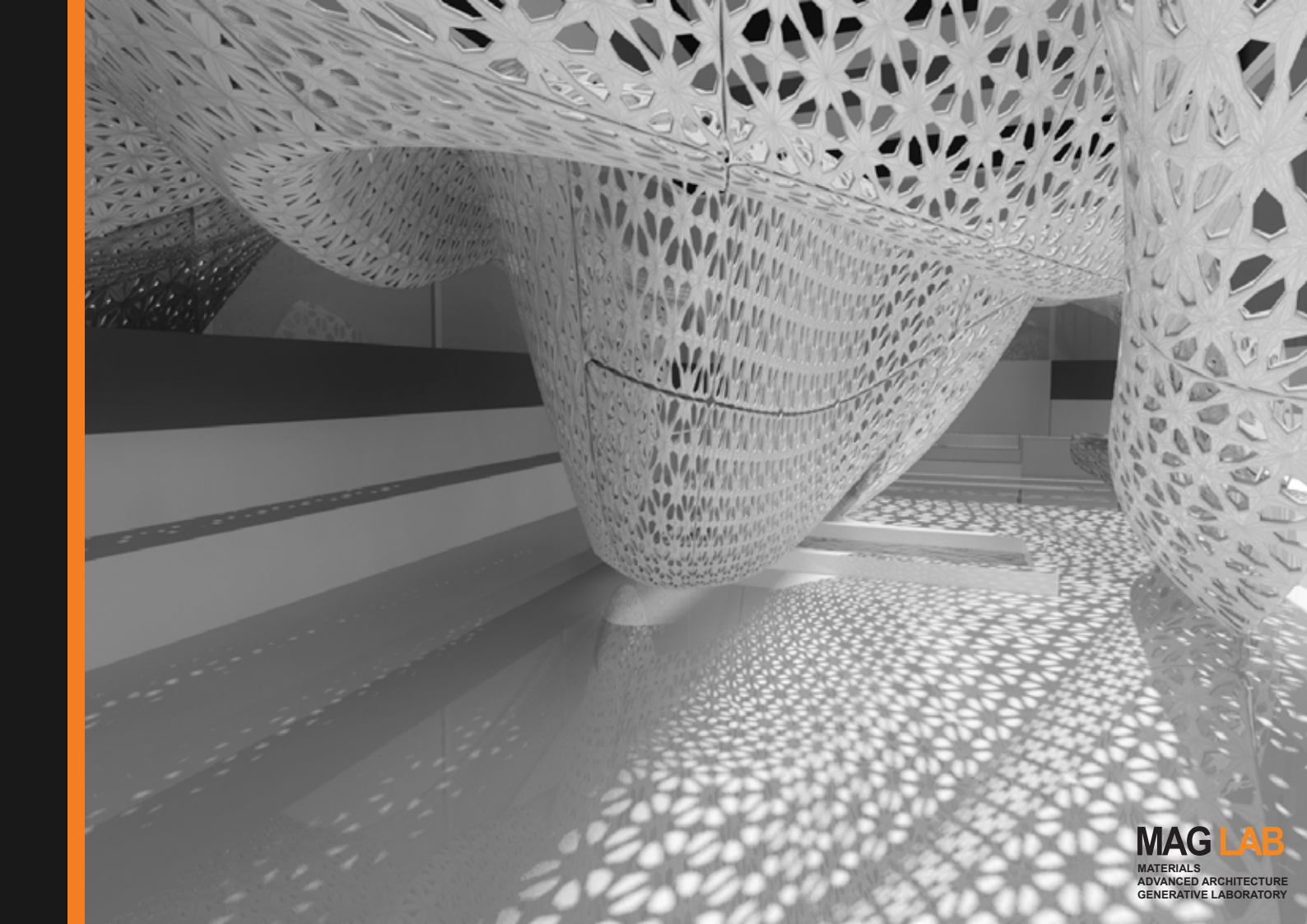
Hadeel Al Nashar

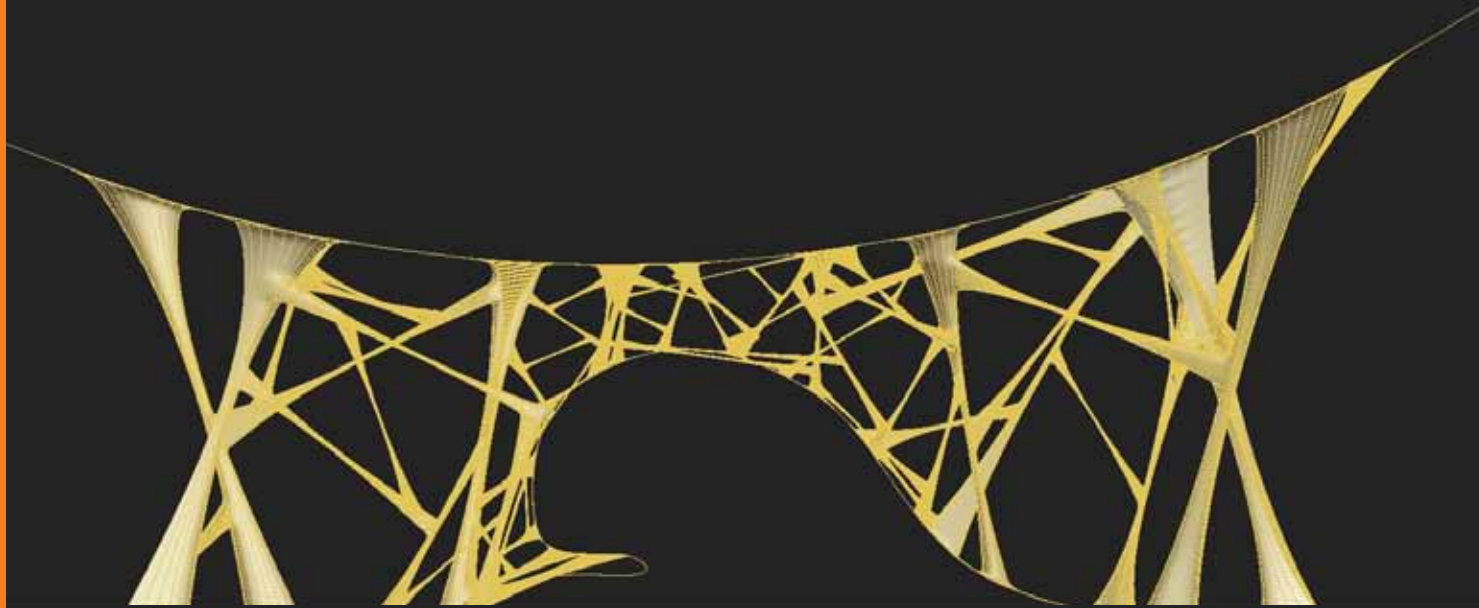
Ola Al Darweesh

Mohamad Ramadan





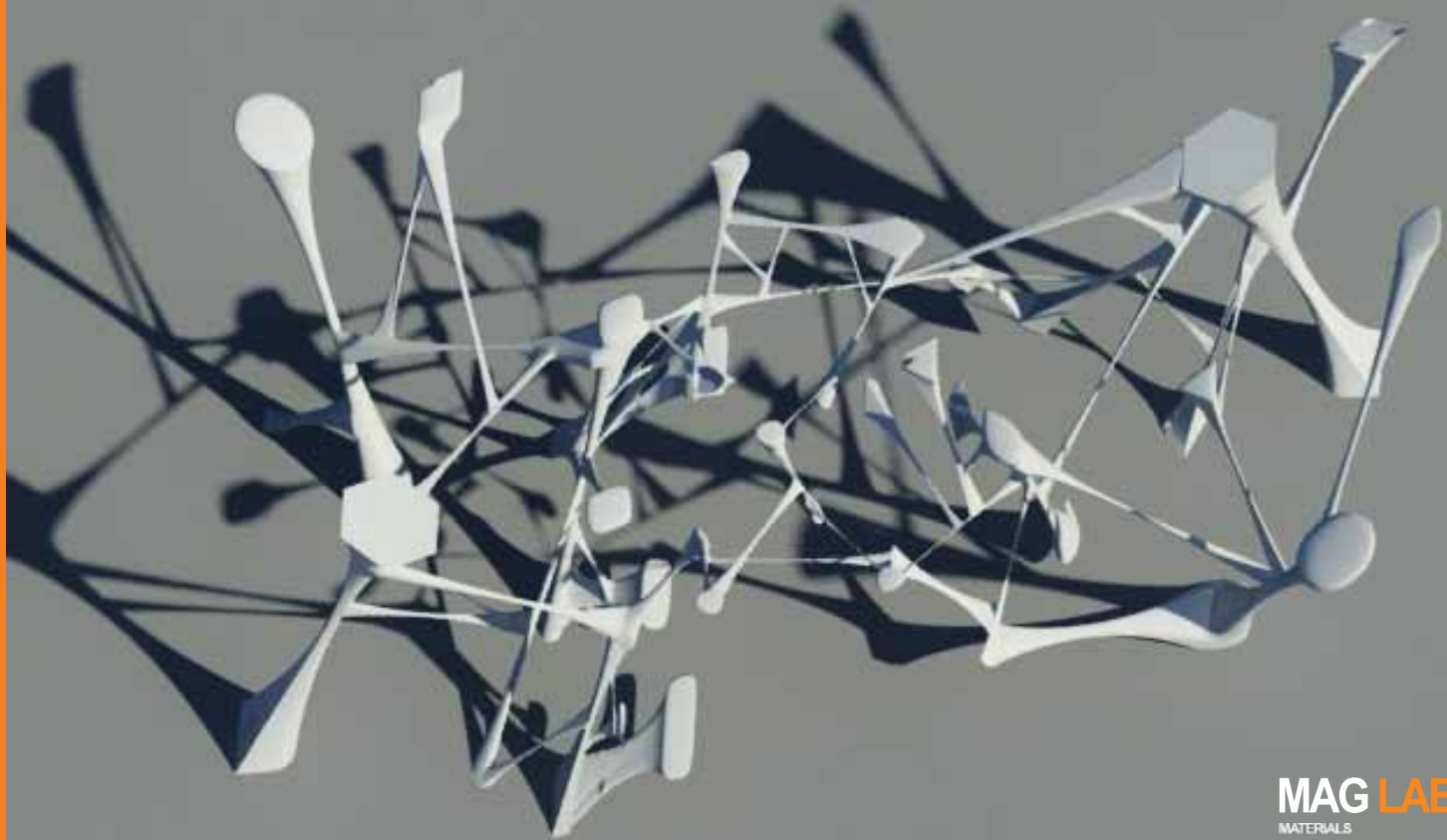


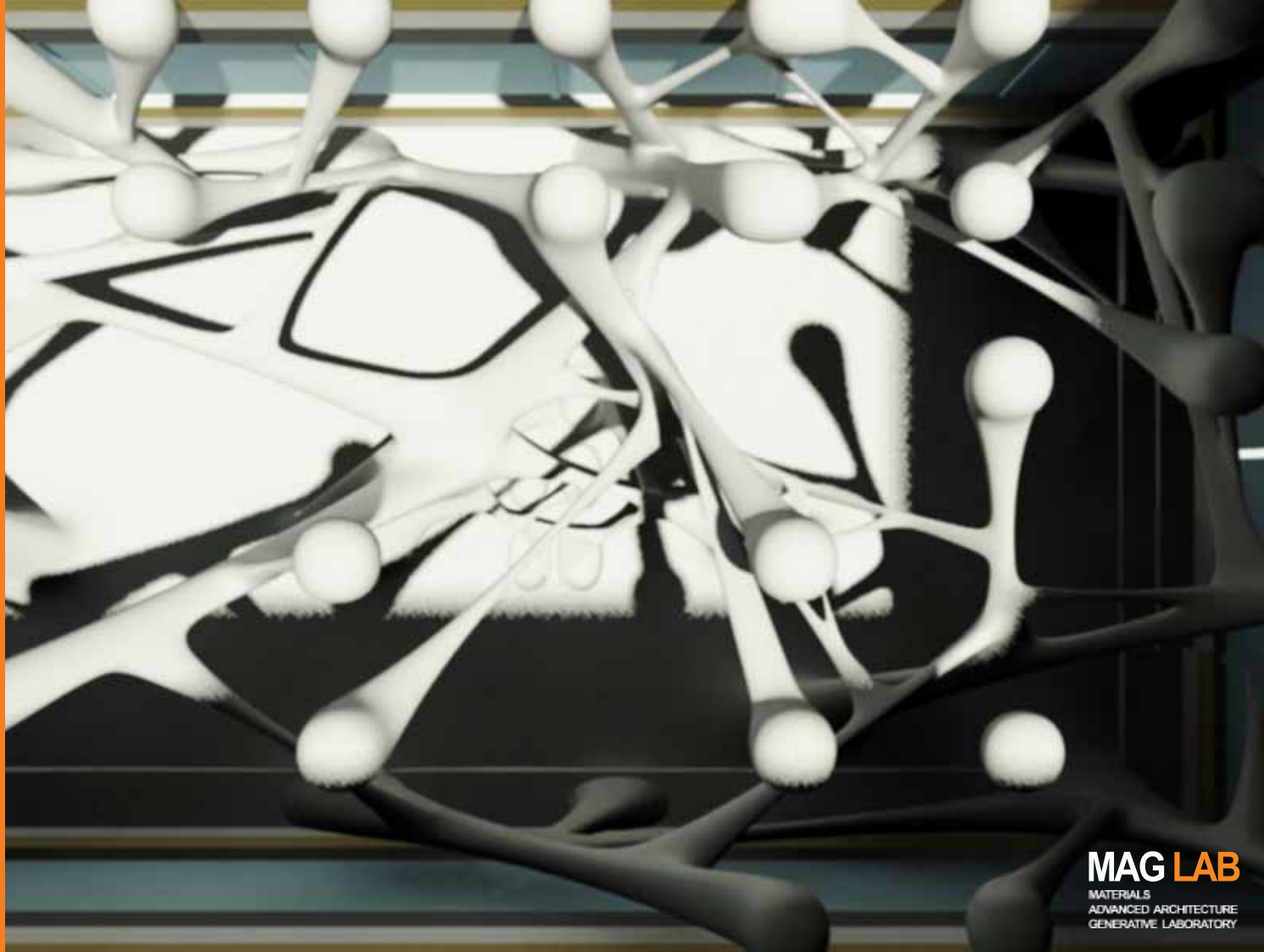


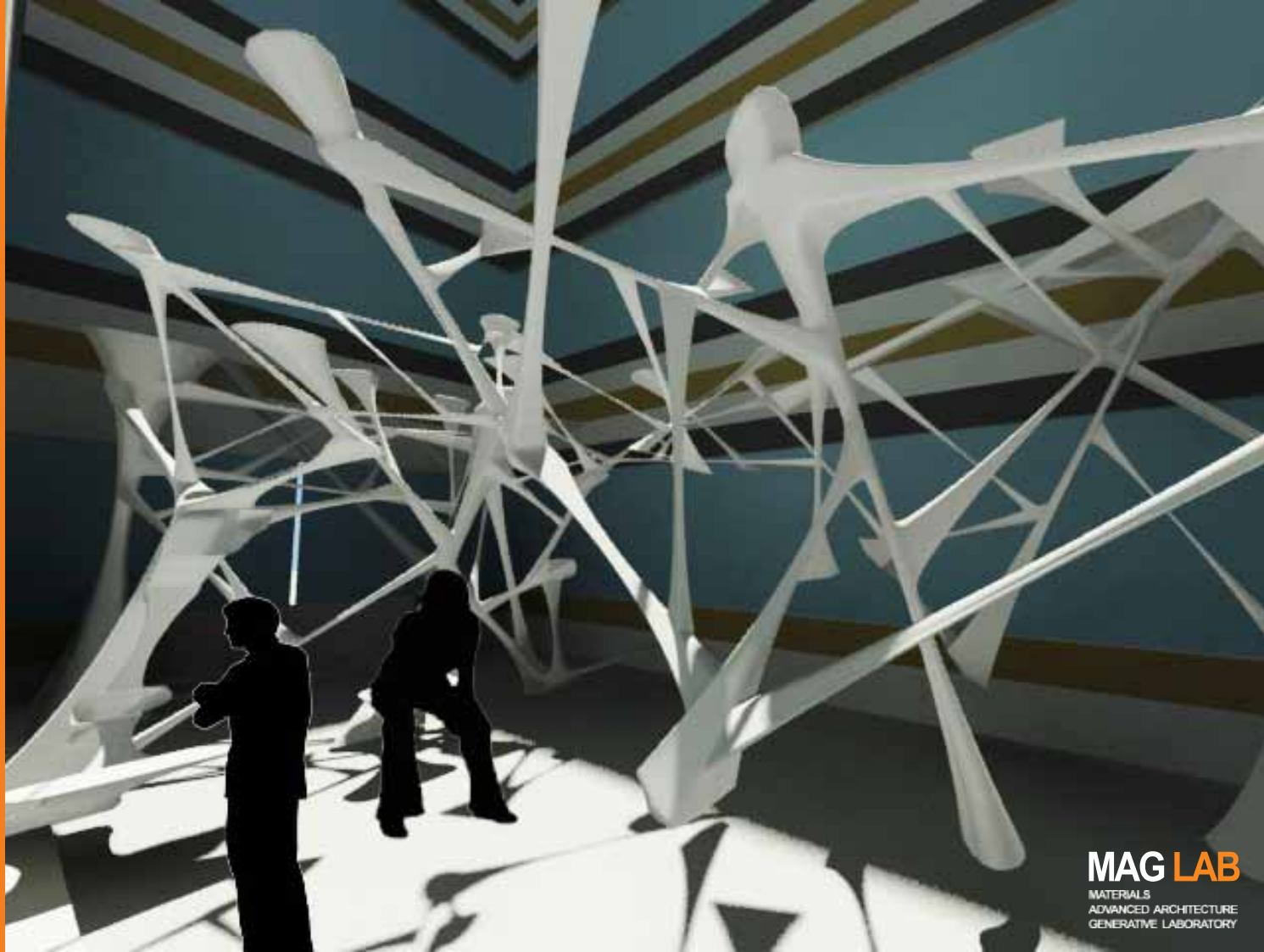
Rnia Al Mawkea

Lina Al Sabbagh

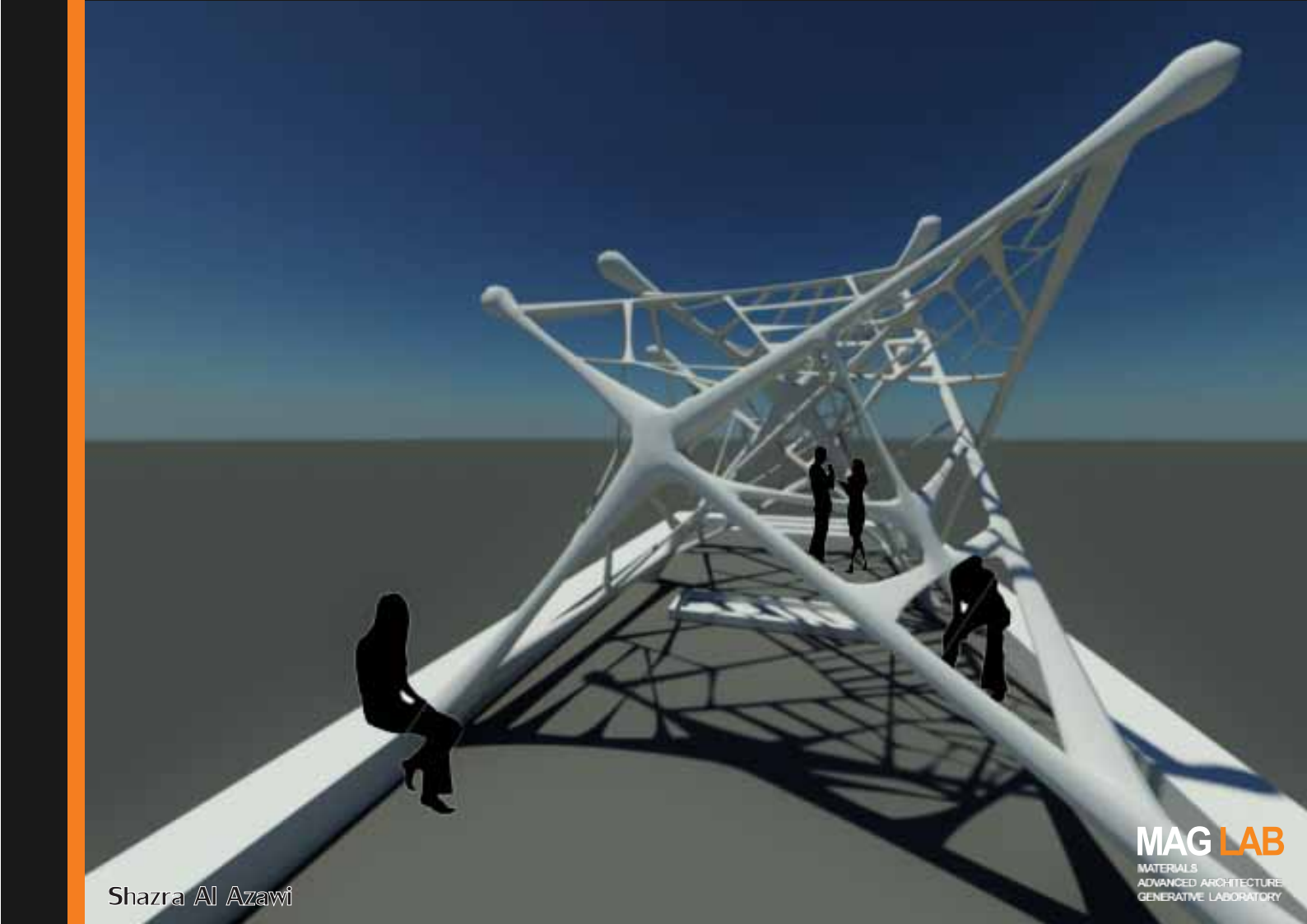
MAG LAB
MATERIALS
ADVANCED ARCHITECTURE
GENERATIVE LABORATORY











Shazra Al Azawi

MAG LAB
MATERIALS
ADVANCED ARCHITECTURE
GENERATIVE LABORATORY



MAG LAB
MATERIALS
ADVANCED ARCHITECTURE
GENERATIVE LABORATORY





Leen Shannis

Ammar Al Ahmar

Salman Antar

MAG LAB
MATERIALS
ADVANCED ARCHITECTURE
GENERATIVE LABORATORY





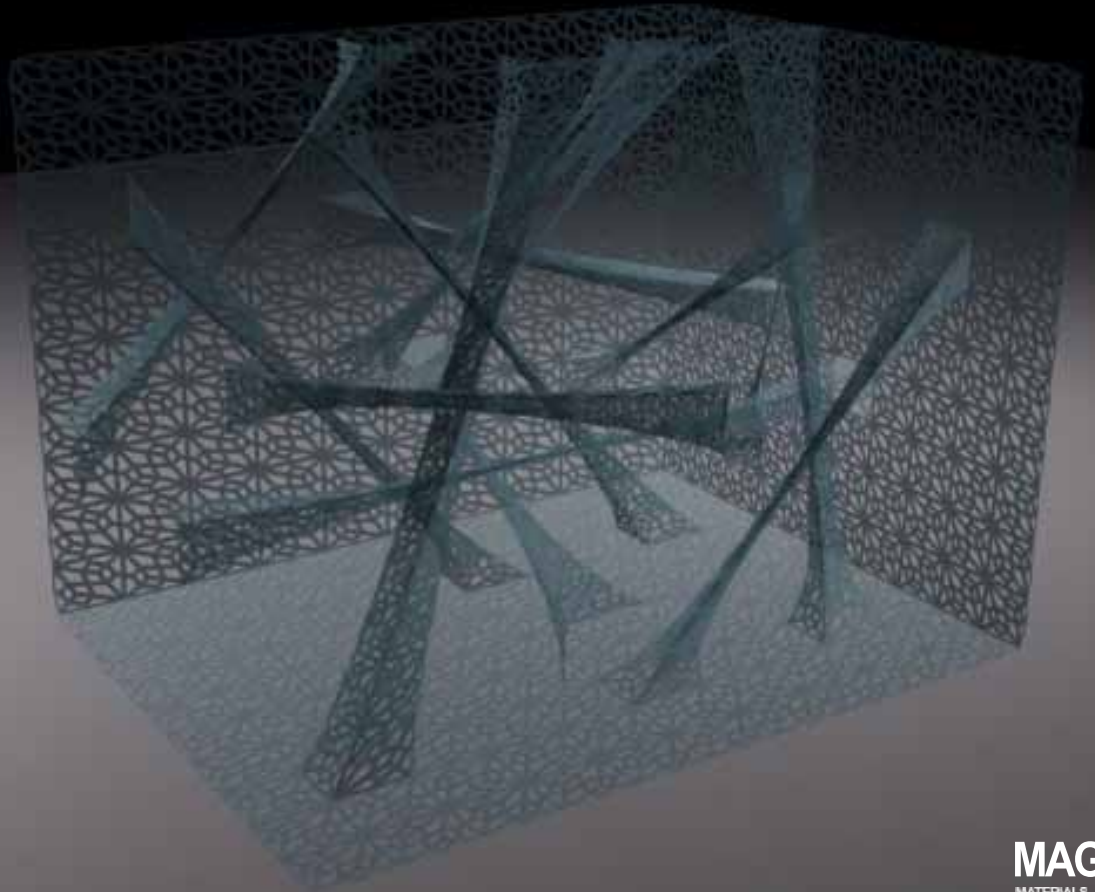


Alya Fahham

Rabea Al Shaar

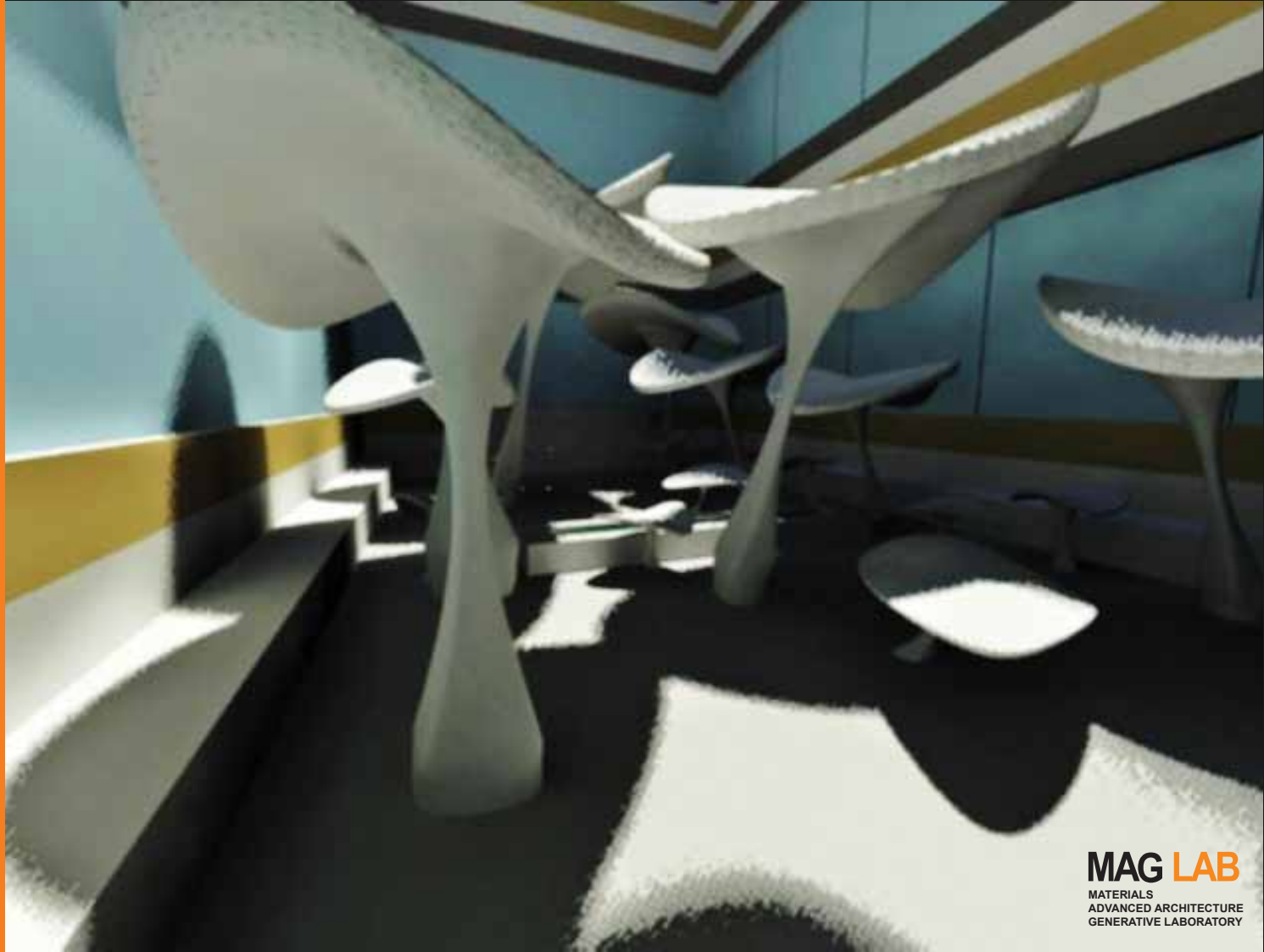
Nour Mrad

MAG LAB
MATERIALS
ADVANCED ARCHITECTURE
GENERATIVE LABORATORY





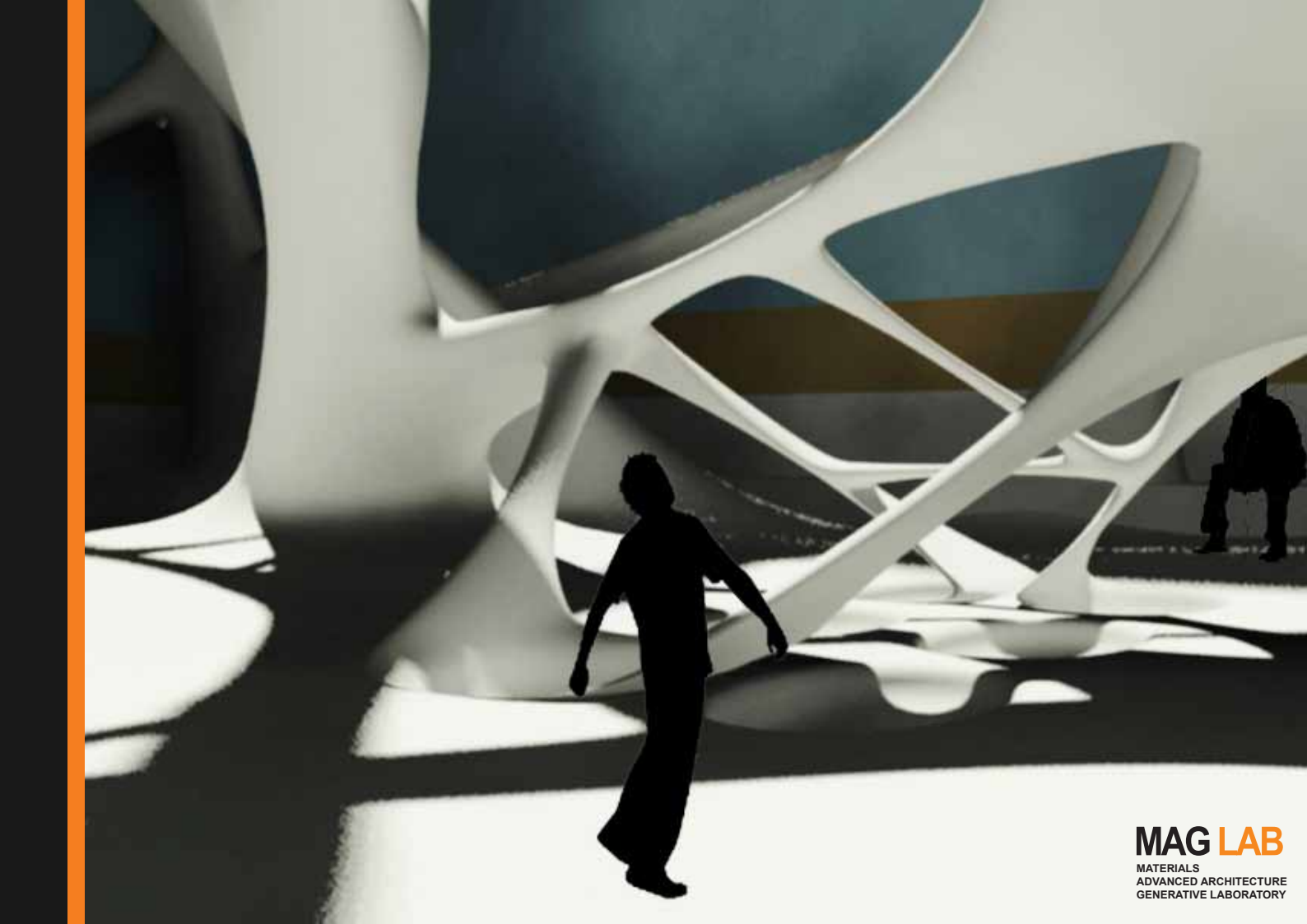






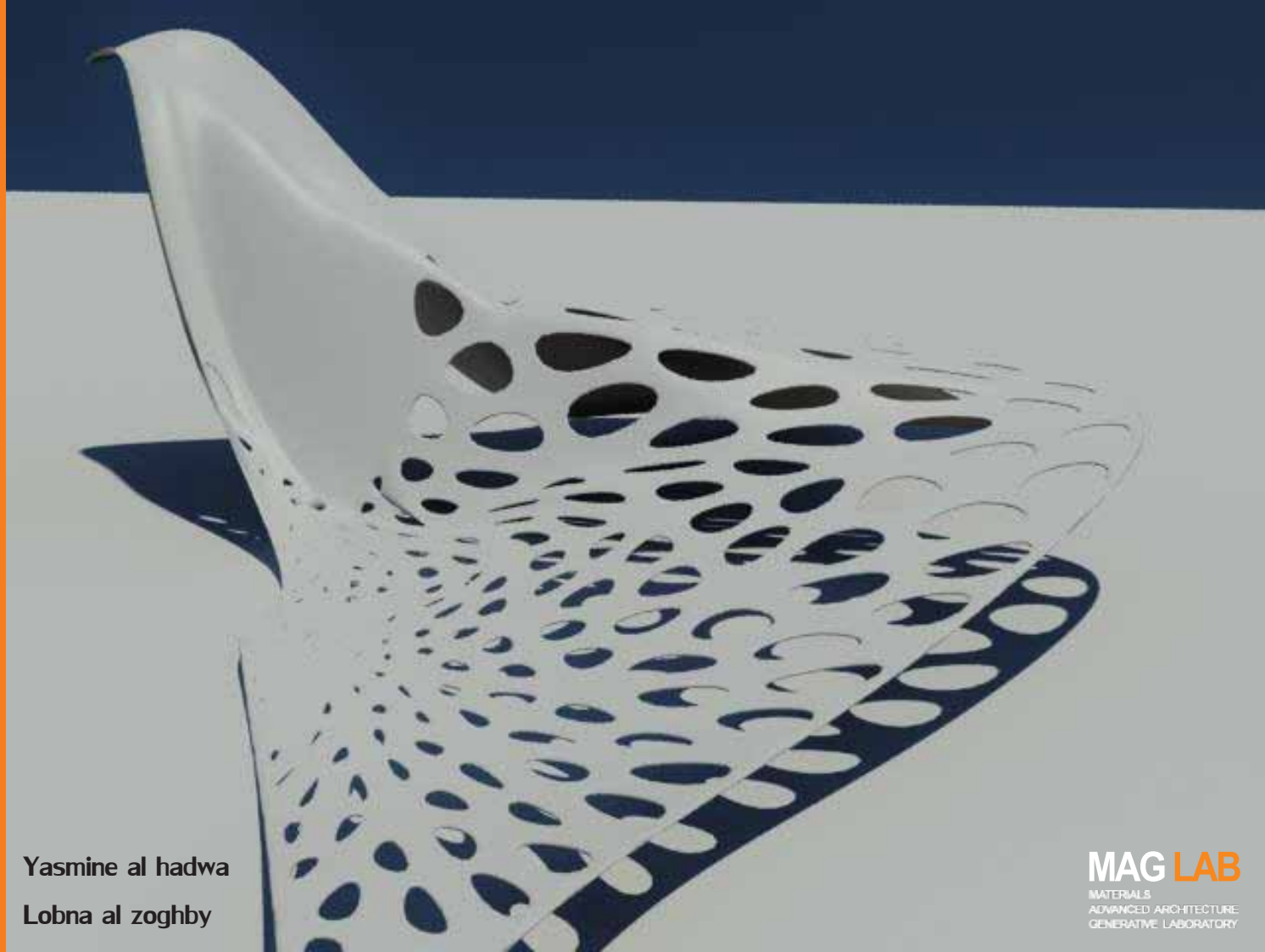
Ali Hasan

MAG LAB
MATERIALS
ADVANCED ARCHITECTURE
GENERATIVE LABORATORY







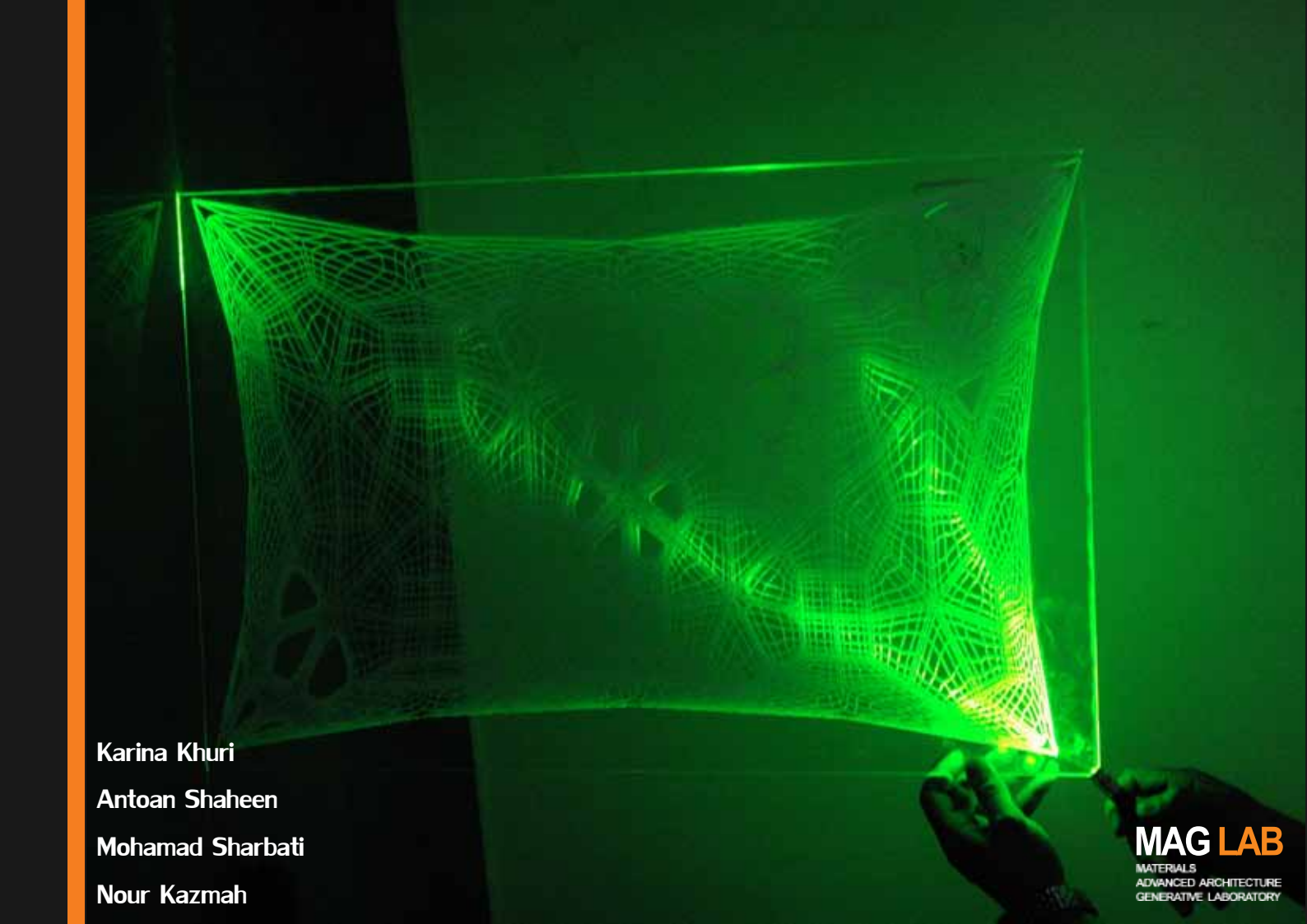


Yasmine al hadwa

Lobna al zoghby





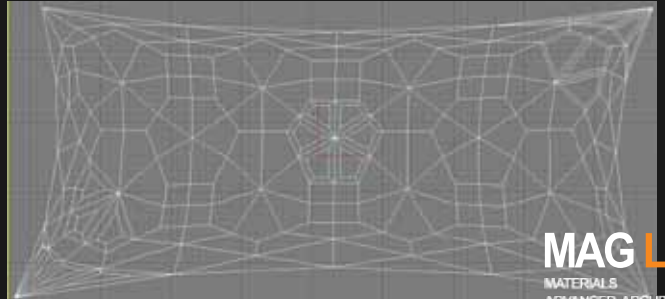
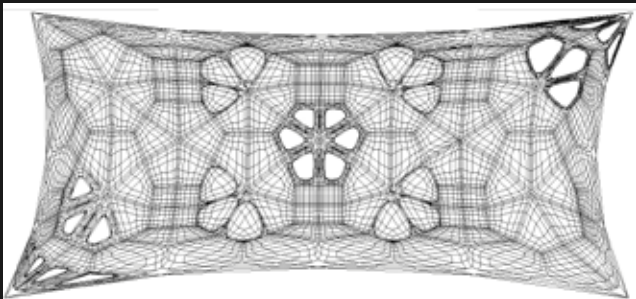
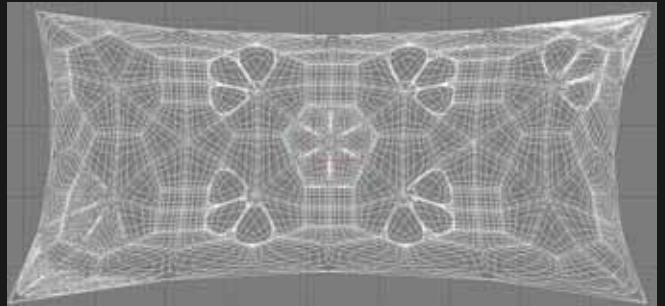
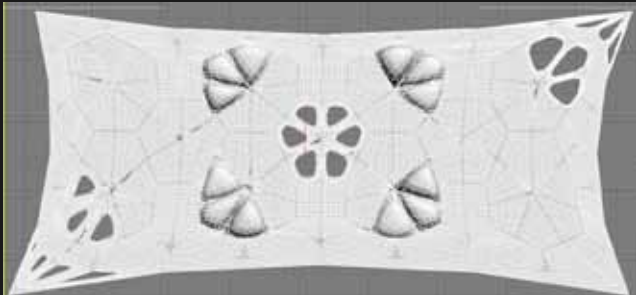
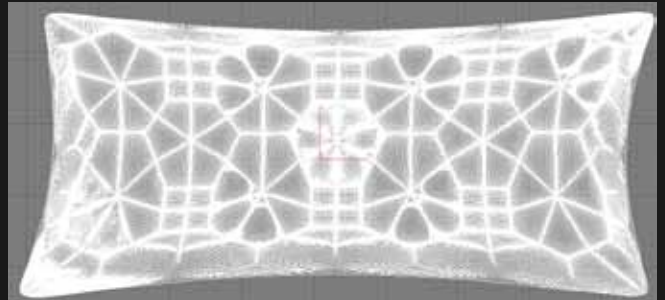
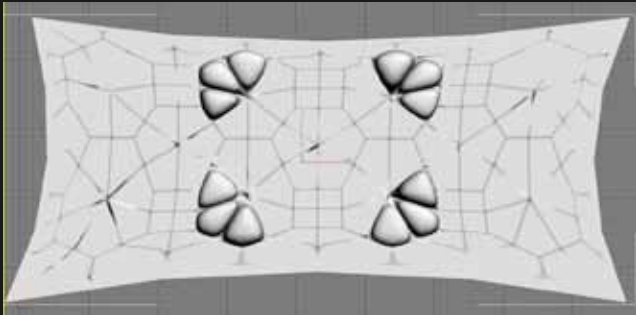


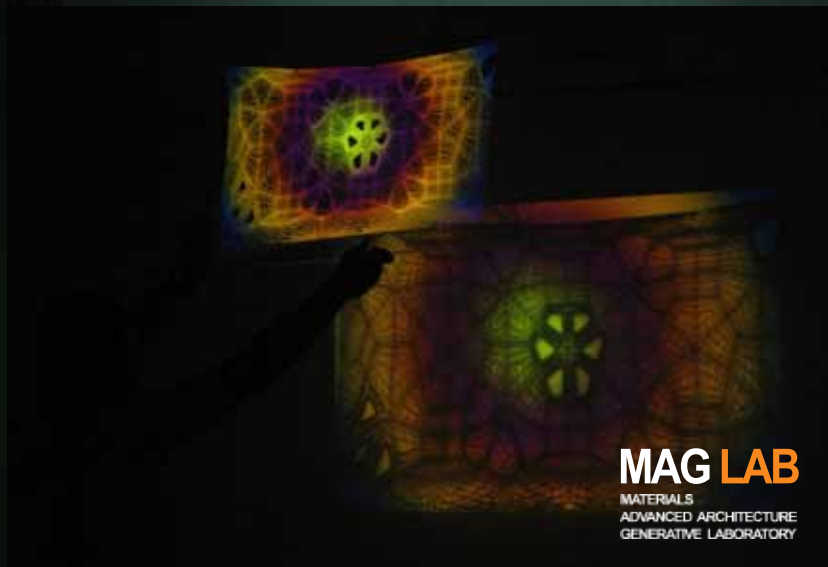
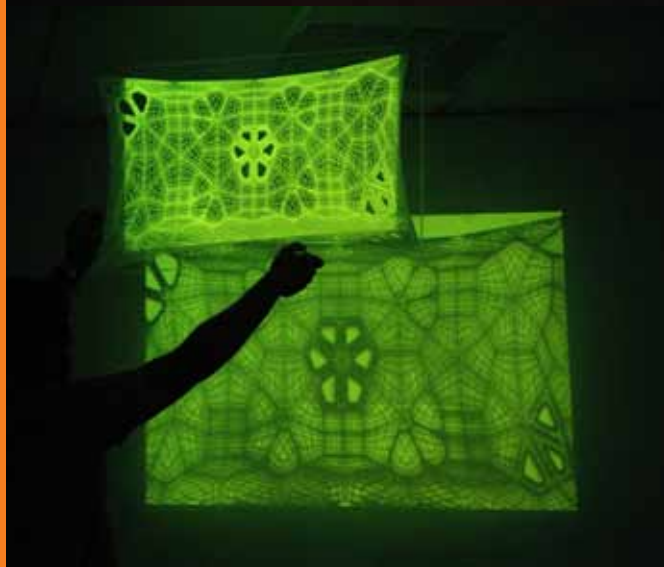
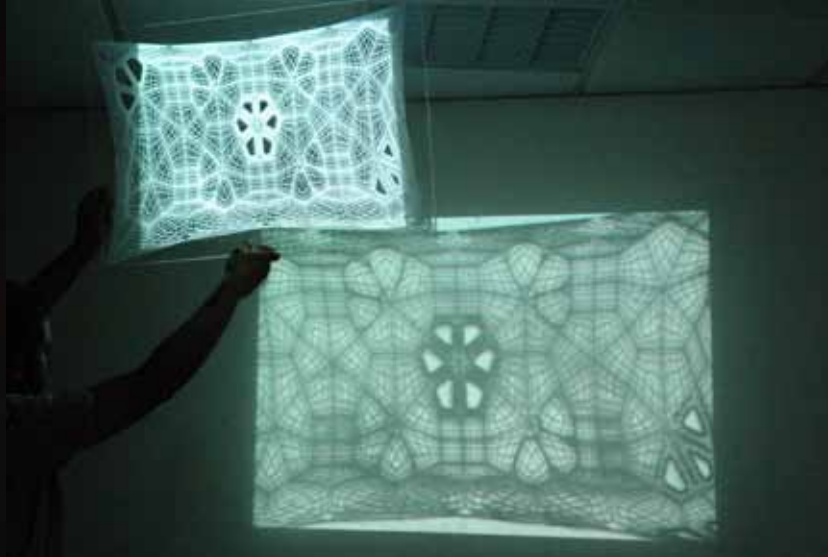
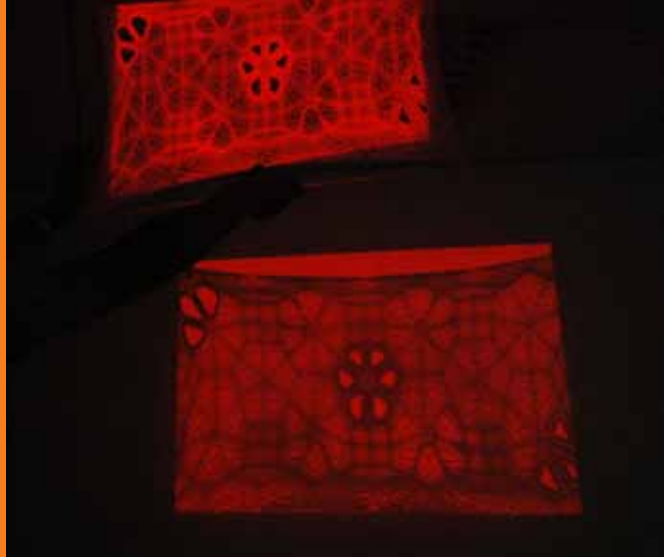
Karina Khuri

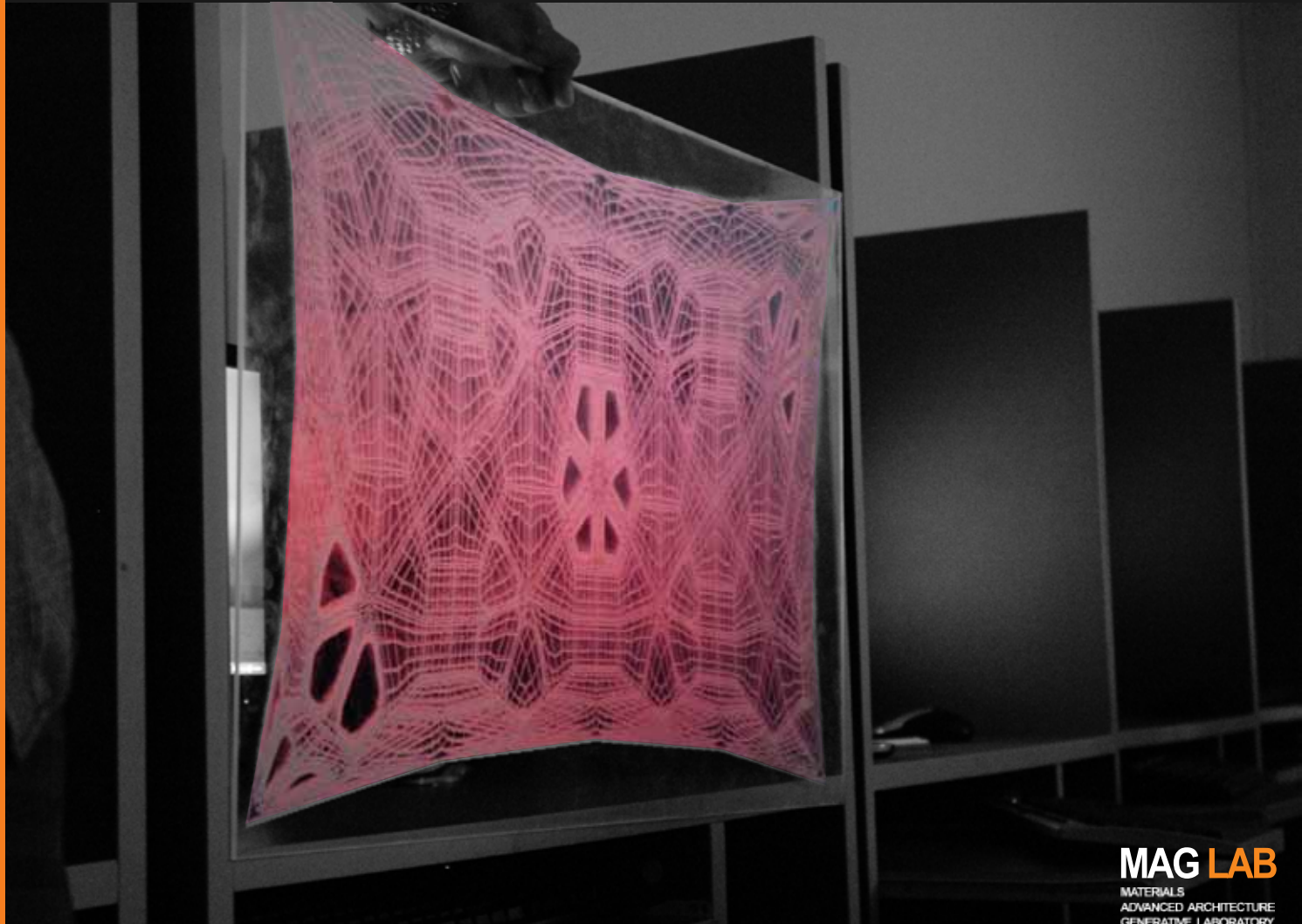
Antoan Shaheen

Mohamad Sharbati

Nour Kazmah





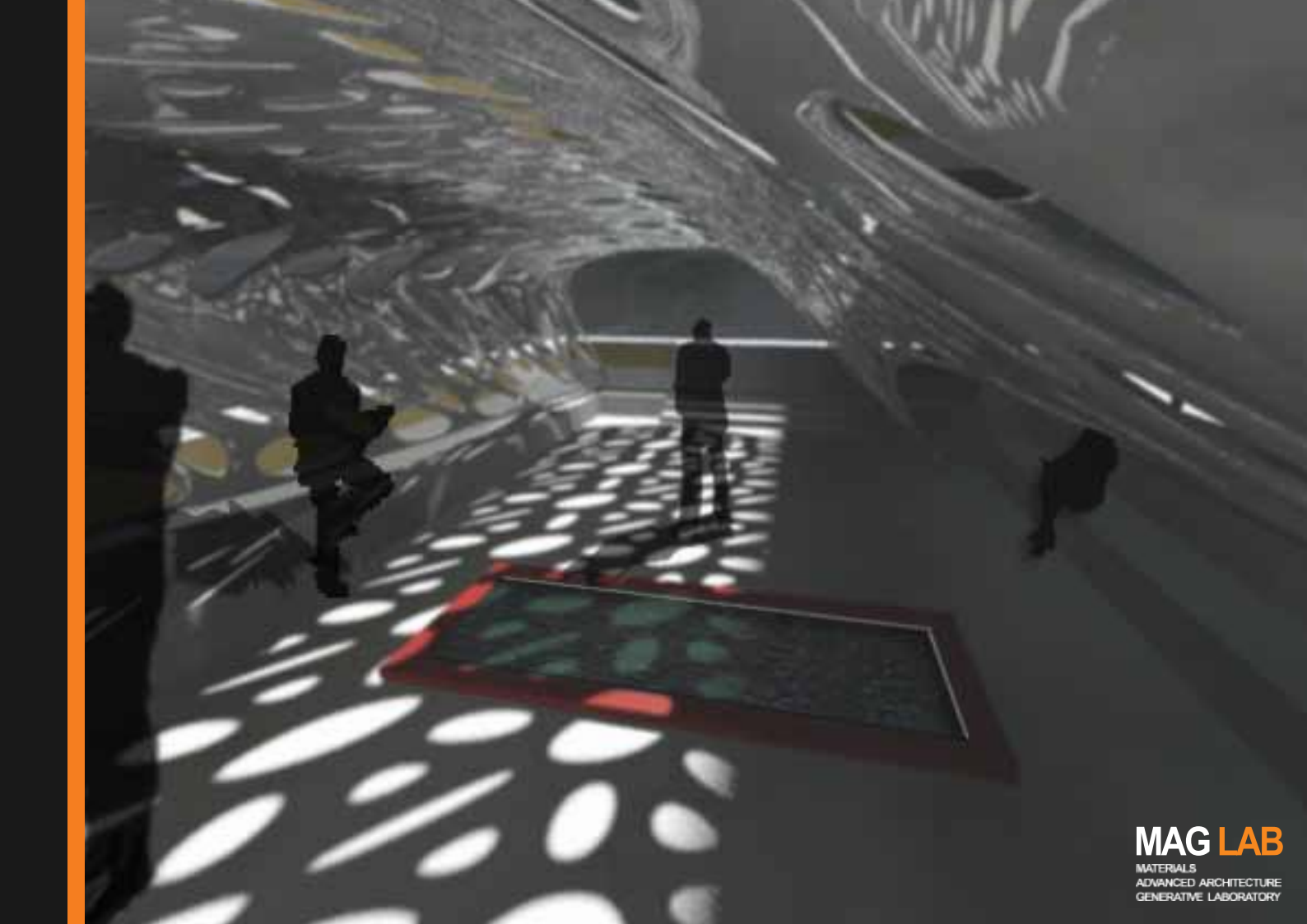


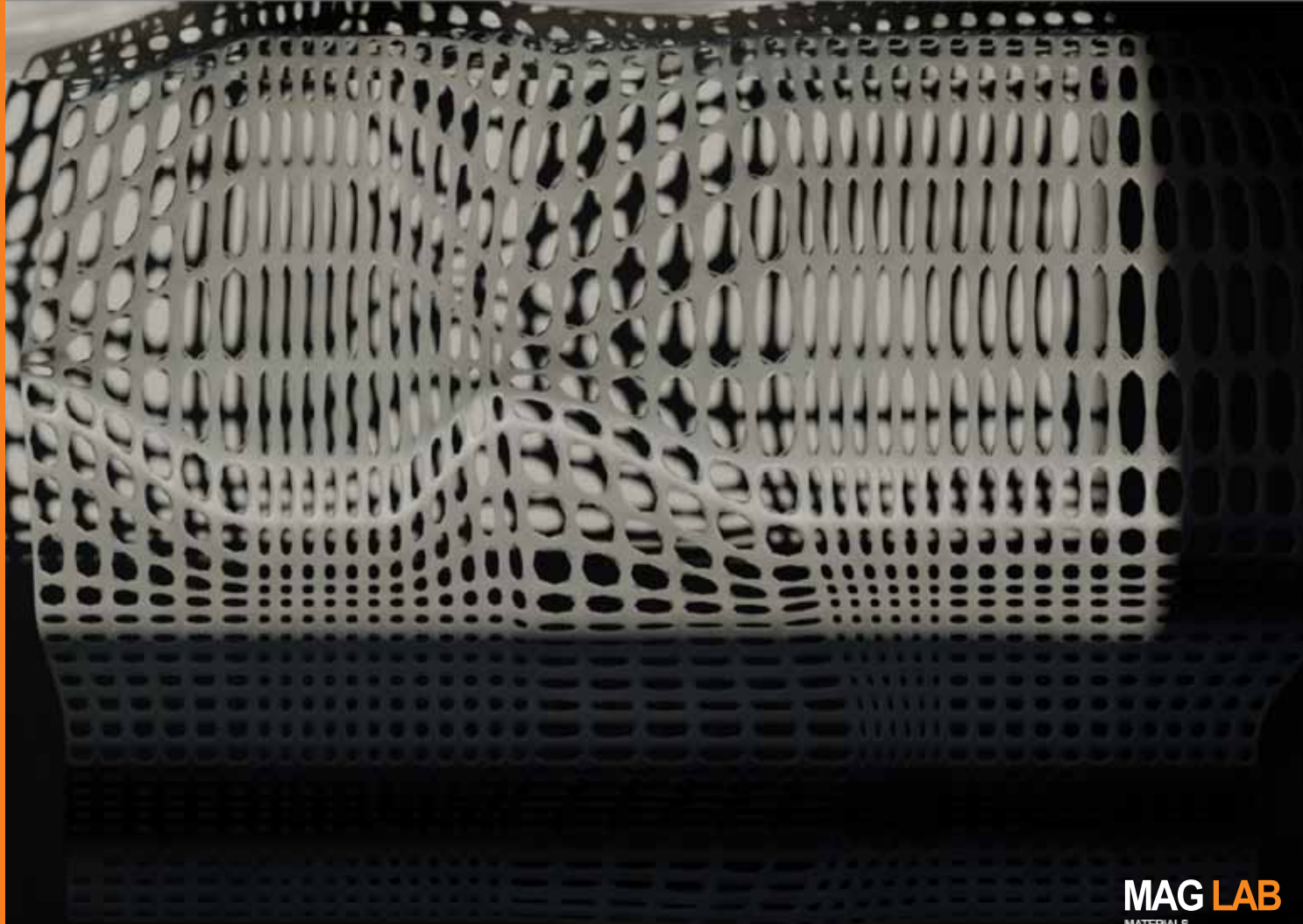


Hussein Alqizwiny

Ahmed Ibraheem

MAG LAB
MATERIALS
ADVANCED ARCHITECTURE
GENERATIVE LABORATORY





Zuheer Algezawi

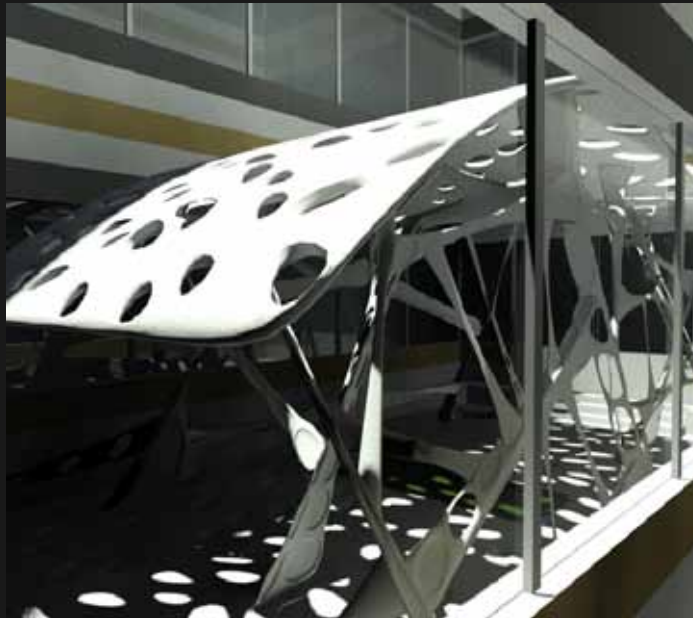
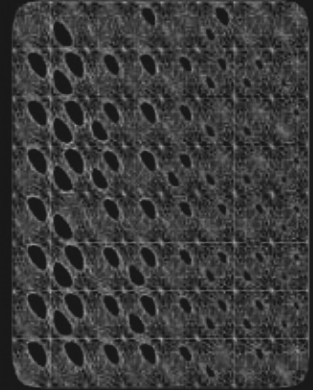
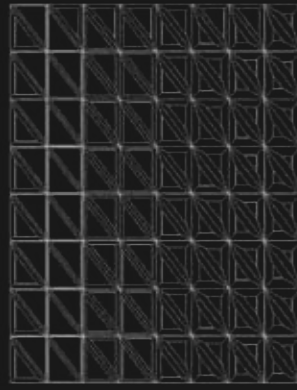
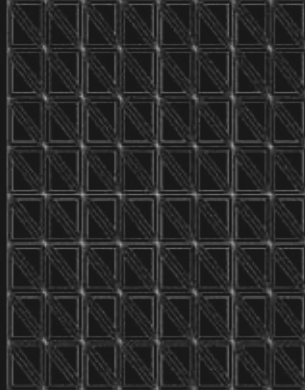
MAG LAB
MATERIALS
ADVANCED ARCHITECTURE
GENERATIVE LABORATORY



Akram Derkashli

Ghaith Al sabei

MAG LAB
MATERIALS
ADVANCED ARCHITECTURE
GENERATIVE LABORATORY



By the end of the workshop students had a ground knowledge concerning both issues of the digital design process and that of the contemporary architecture. The main objective was to extract the information from the research as an input in order to generate a new 3D spatial output

The workshop was held over a period of 5 days and was directed to undergraduate students (4th & 5th year, Faculty of Architecture, AIU)





MAG LAB

**MATERIALS
ADVANCED ARCHITECTURE
GENERATIVE LABORATORY**

www.mag-sy.com
maglab@mag-sy.com

©MAG-LAB 2011-AIU Summer Workshop
Parametric Design Workshop