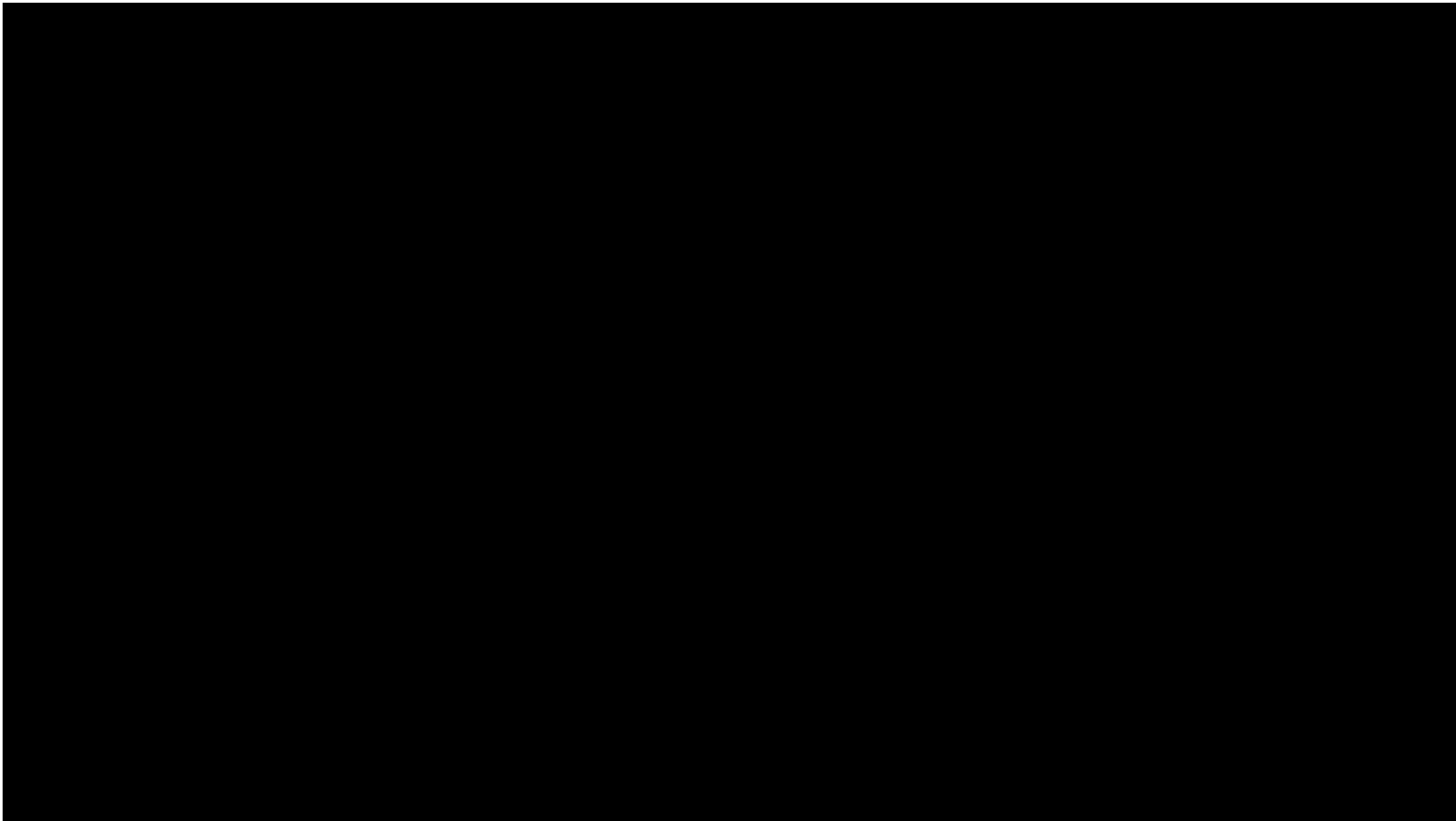


SUSTAINABLE SKYLINES:

BE THAT ARCHITECT

DR JOHN STANISLAV SADAR





**ARCHITECTURE IS ABOUT
WHY, WHERE, WHAT,
AND HOW WE IMAGINE,
CONCEPTUALISE,
ORGANISE, DETAIL AND
CONSTRUCT OUR HABITAT**



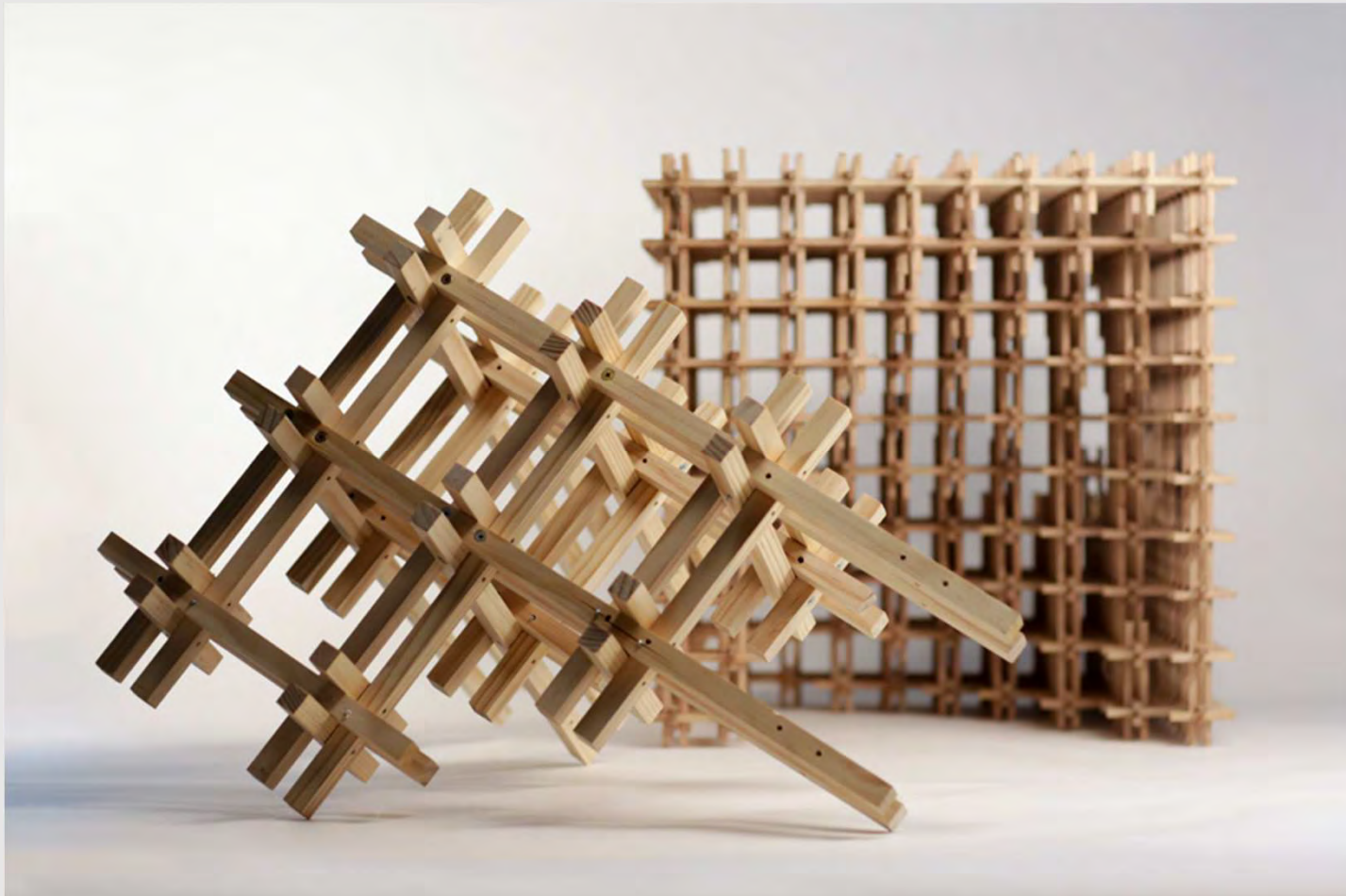
**ARCHITECTURE IS ABOUT
HOW WE LIVE, AND THE
ETHICS EMBEDDED IN
OUR ENVIRONMENTS FOR
LIVING**



ARCHITECTURE IS CONCERNED WITH BOTH FORM AND SPACE, PROCESS AND PERFORMANCE, MASS AND LIGHT, PERCEPTION AND COMFORT, VALUES AND EXPECTATIONS



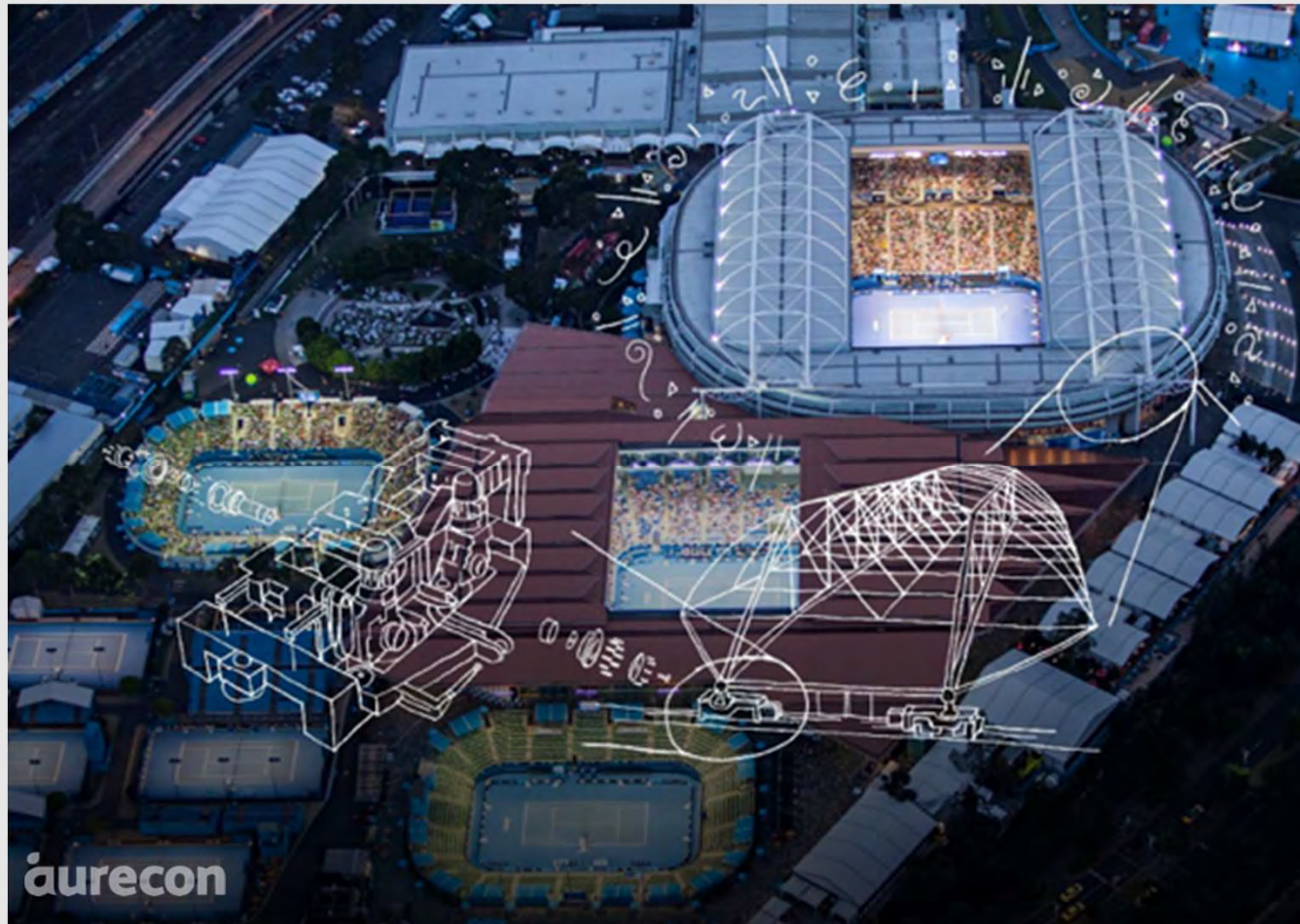
ARCHITECTS MUST LEARN TO THINK AT A VARIETY OF SCALES FROM THE CITY...



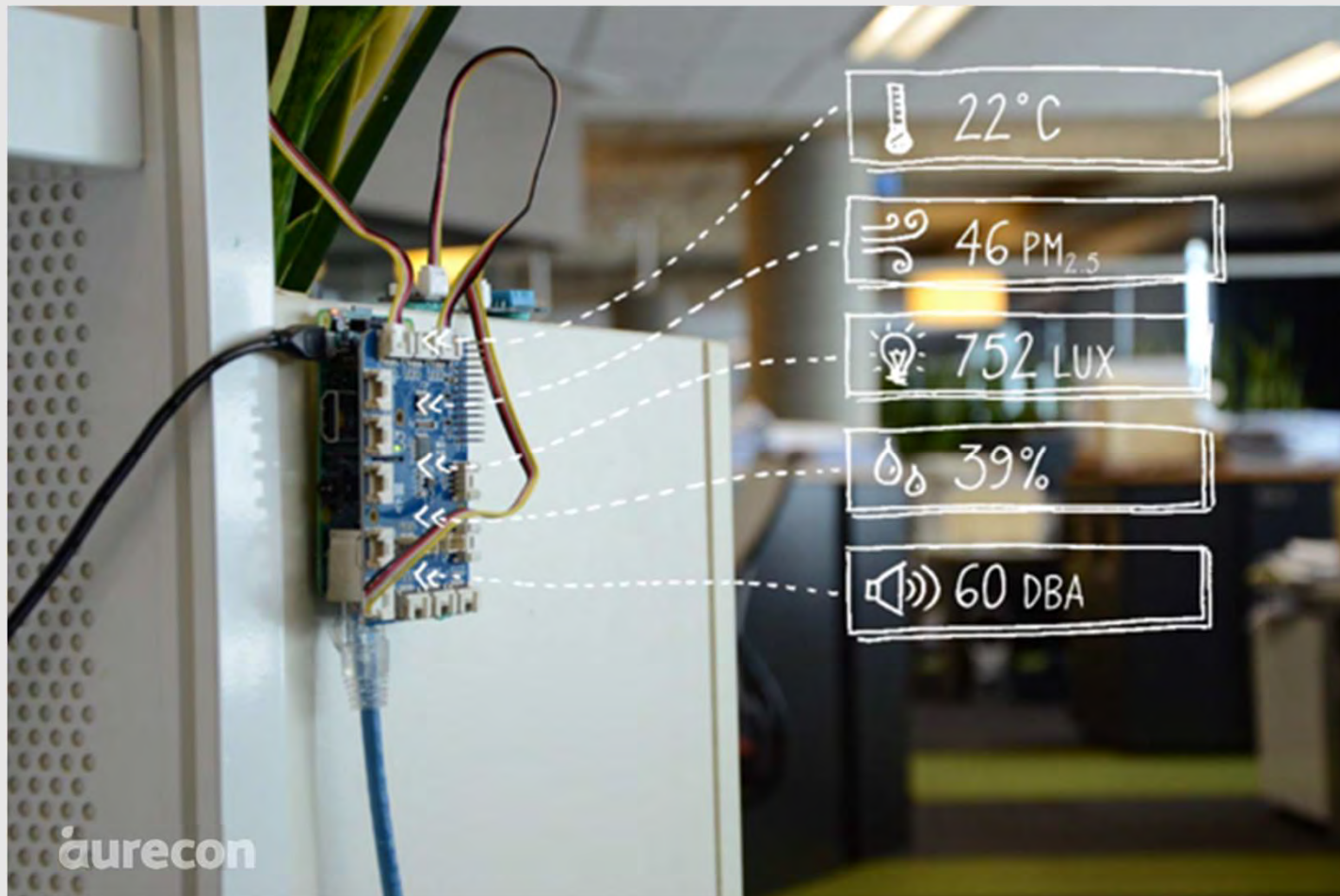
... DOWN TO THE INDIVIDUAL HUMAN DOWN TO THE WATER MOLECULE



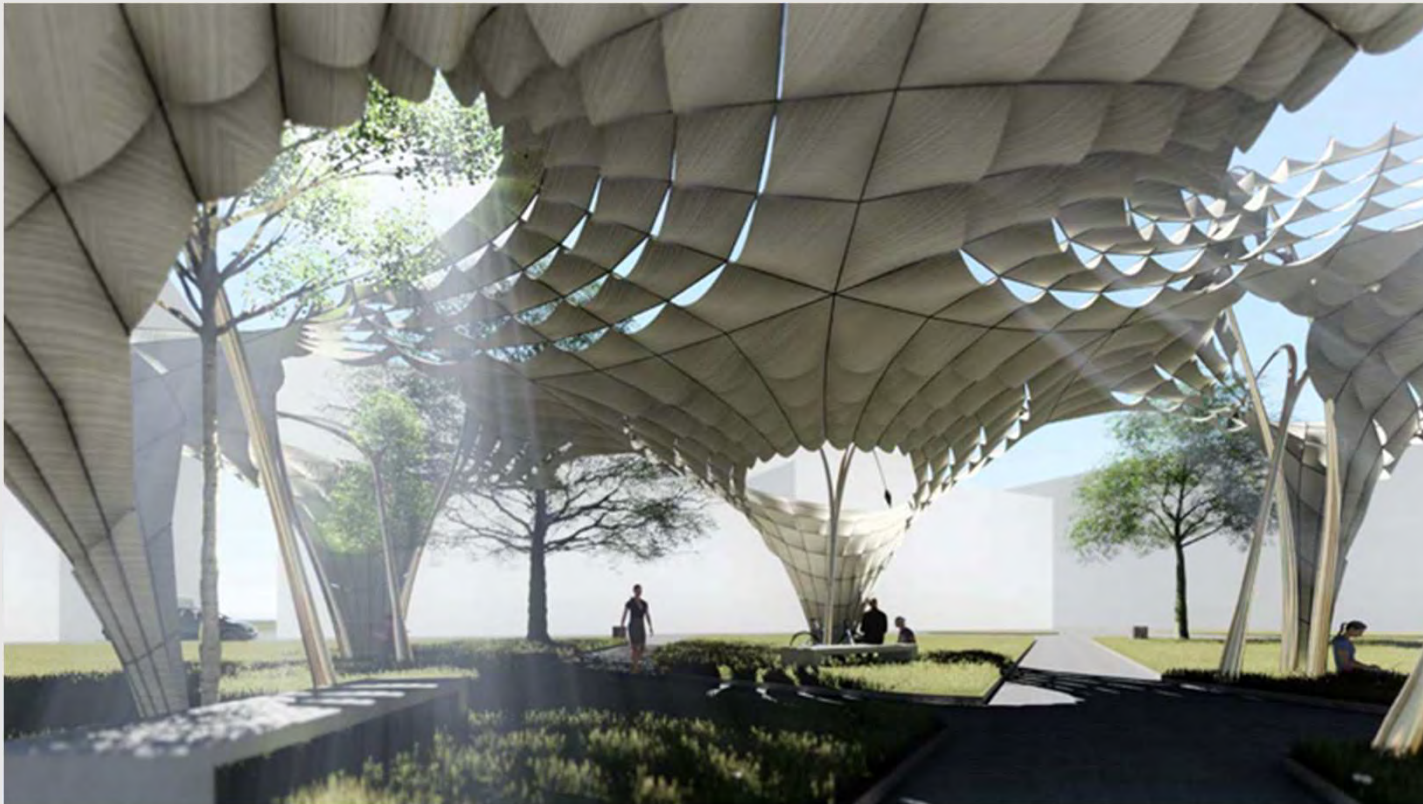
ARCHITECTS ARRANGE MATERIALS IN RESPONSE TO THE FLOW OF FORCES AND THE LOGISTICS OF CONSTRUCTION



ARCHITECTS THINK ABOUT HEALTH AND COMFORT, AND HOW WE MANAGE OUR ENVIRONMENTS



ARCHITECTS THINK IN TERMS OF SYSTEMS



ARCHITECTS MUST ALSO THINK ABOUT PROCESSES: HOW DO WE BUILD? HOW DO WE ORCHESTRATE OFTEN OPPOSITIONAL FORCES TO CREATE USEFUL AND PLEASING WHOLE?



Tooling for bespoke bending of plywood

ARCHITECTS MUST EVEN THINK ABOUT THE MATERIALS WE USE TO BUILD



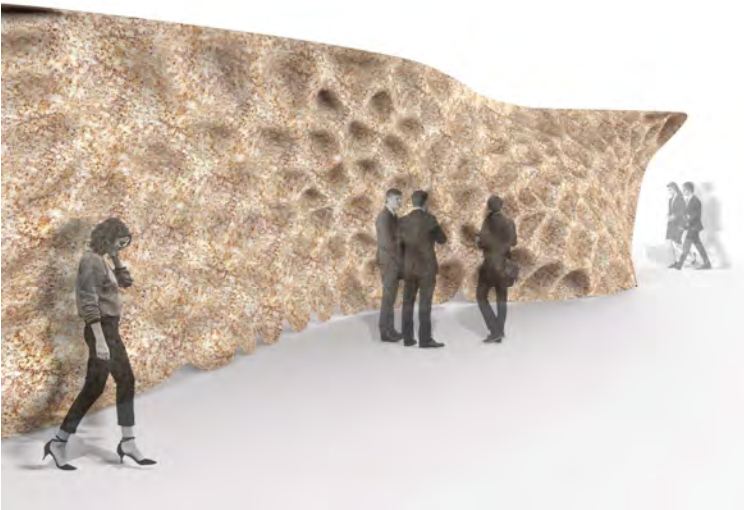
Mycelium study

Intensive Workshop: IaaC GSS Biodigital
Futures: From Coding to Cultivating

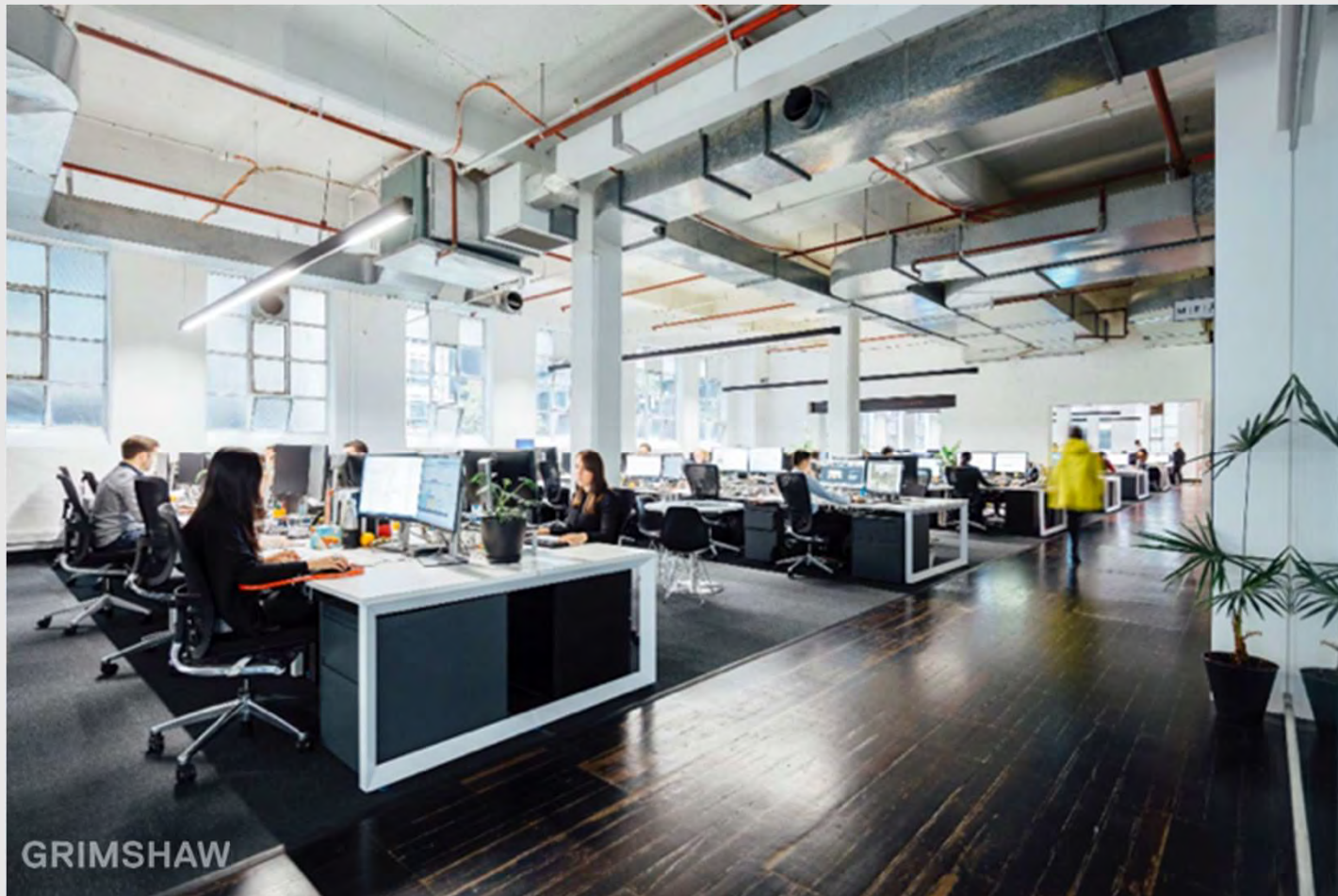
ARCHITECTS MUST THINK ABOUT CHANGING THE PARADIGMS OF PRACTICE

Mycoustic project

Intensive Workshop: IaaC GSS Biodigital Futures: From Coding to Cultivating



ARCHITECTS WORK IN SPACES LIKE THIS



ARCHITECTURAL EDUCATION: 3 + 2 STRUCTURE

- Architectural education consists of two parts
- 3 year undergraduate degree
- 2 year postgraduate degree
- Both are needed for the professional qualification
- Education is only one part of professional qualification as an architect
- Professional qualification also requires work experience, an exam and an interview

ARCHITECTURE KEY FACTS



Bachelor of Design (Architecture) *foundation for Master of Architecture*

- Hawthorn Campus
- 3 years full-time
- Guaranteed Entry ATAR: 80

Course Content:

- Design Studio
- Construction
- Communication
- Contextual Studies (History/Theory)
- Electives (possible minor)

COURSE INFORMATION



Master of Architecture

- Hawthorn Campus
- 2 years full-time

Master of Urban Design

- Hawthorn Campus
- 2 years full-time

Master of Architecture and Urban Design

- Hawthorn Campus
- 2 years full-time

OUR LEARNING TAKES A VARIETY OF FORMS AND HAPPENS IN A VARIETY OF PLACES, FROM CLASSROOM TO WORKSHOP...



...TO THE DESIGN STUDIO



STUDYING ARCHITECTURE AT SWINBURNE

Face-to-face, project-based learning including:

- lectures
- seminars
- studios
- maximum 24 students: 1 instructor

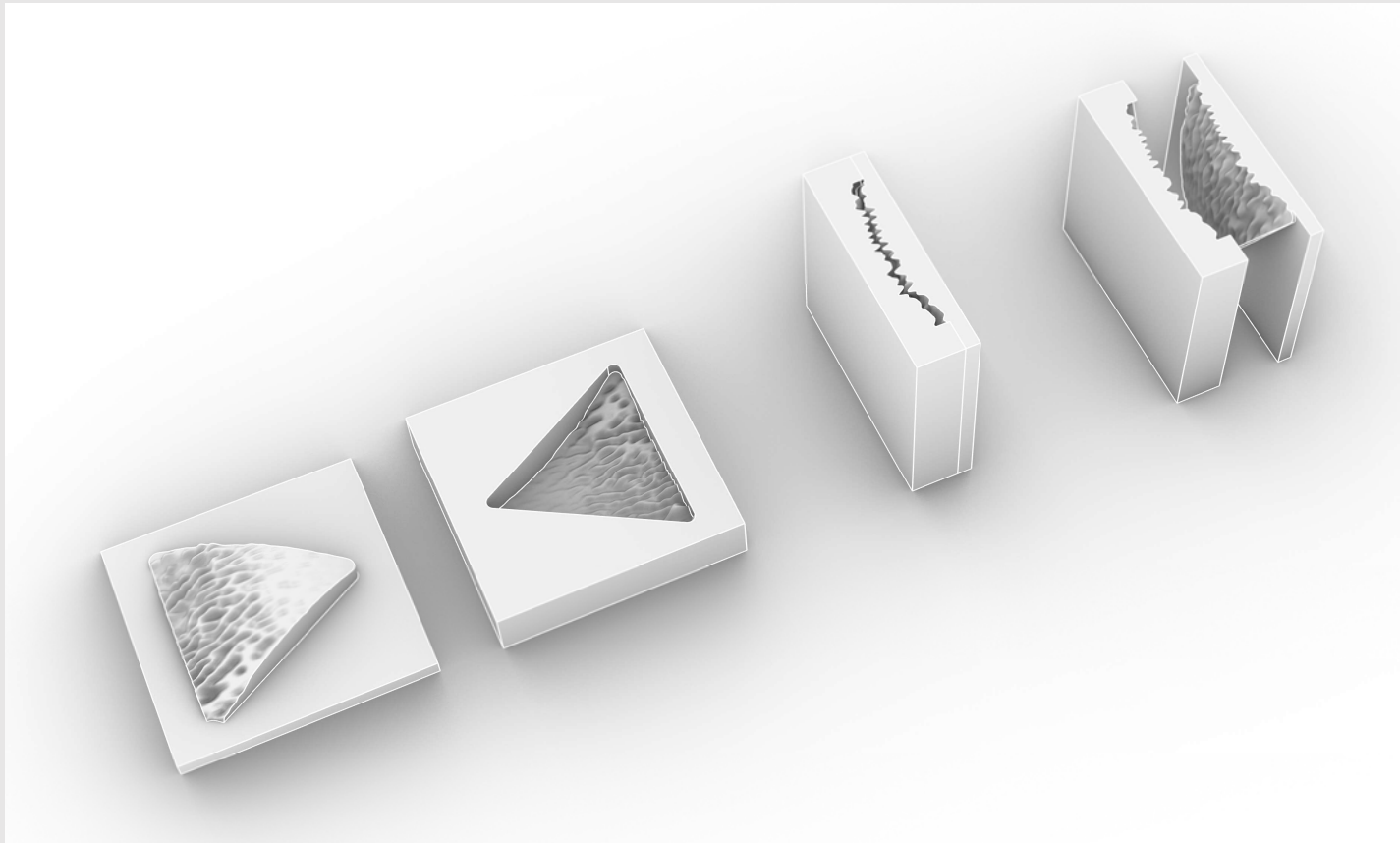
Active, participatory learning

Studio-based learning

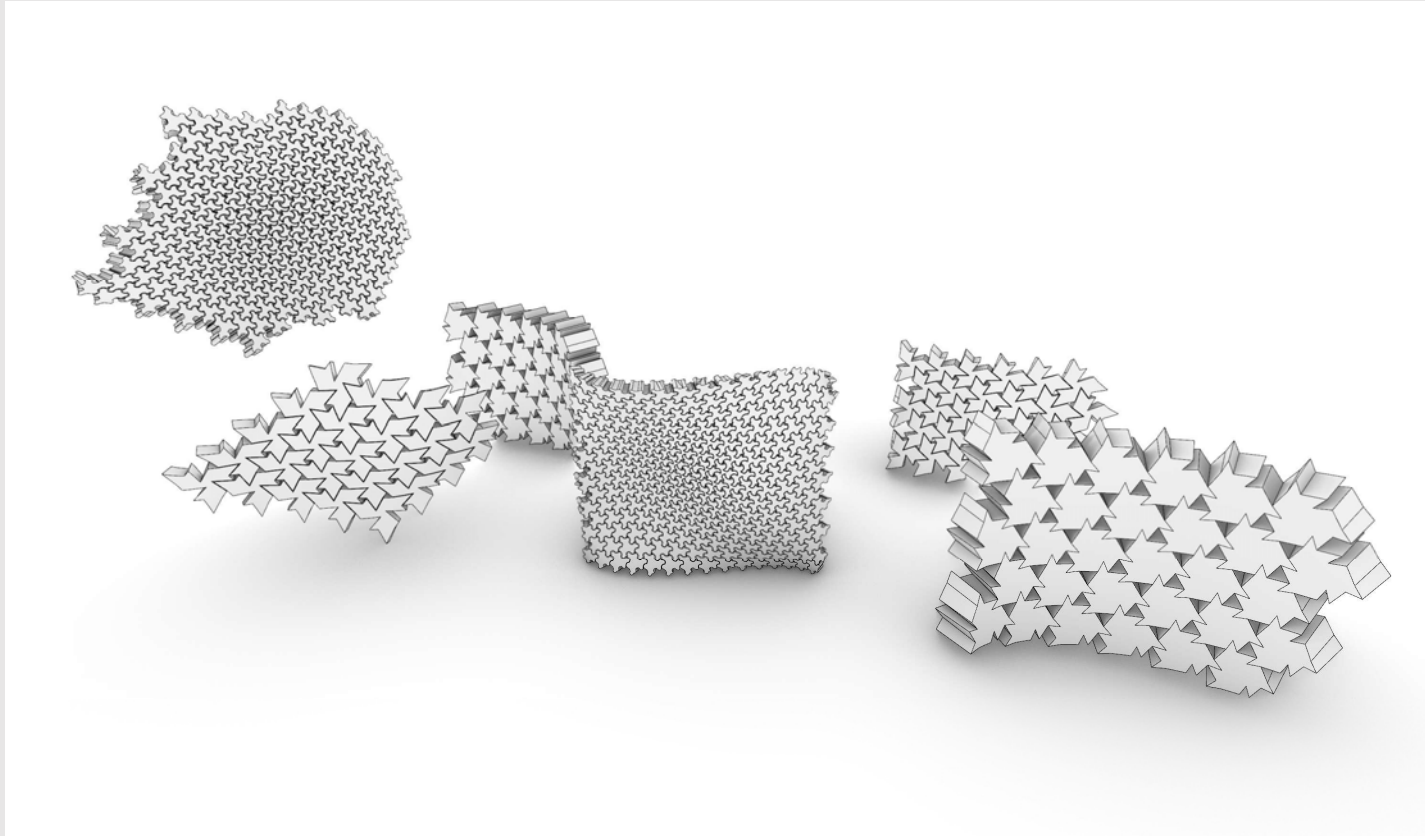
- students work on practical projects
- learn to develop cohesive proposals out of often disparate, complex, competing interests
- propose ideas verbally, graphically, and three-dimensionally
- receive immediate verbal feedback from a panel of jurors



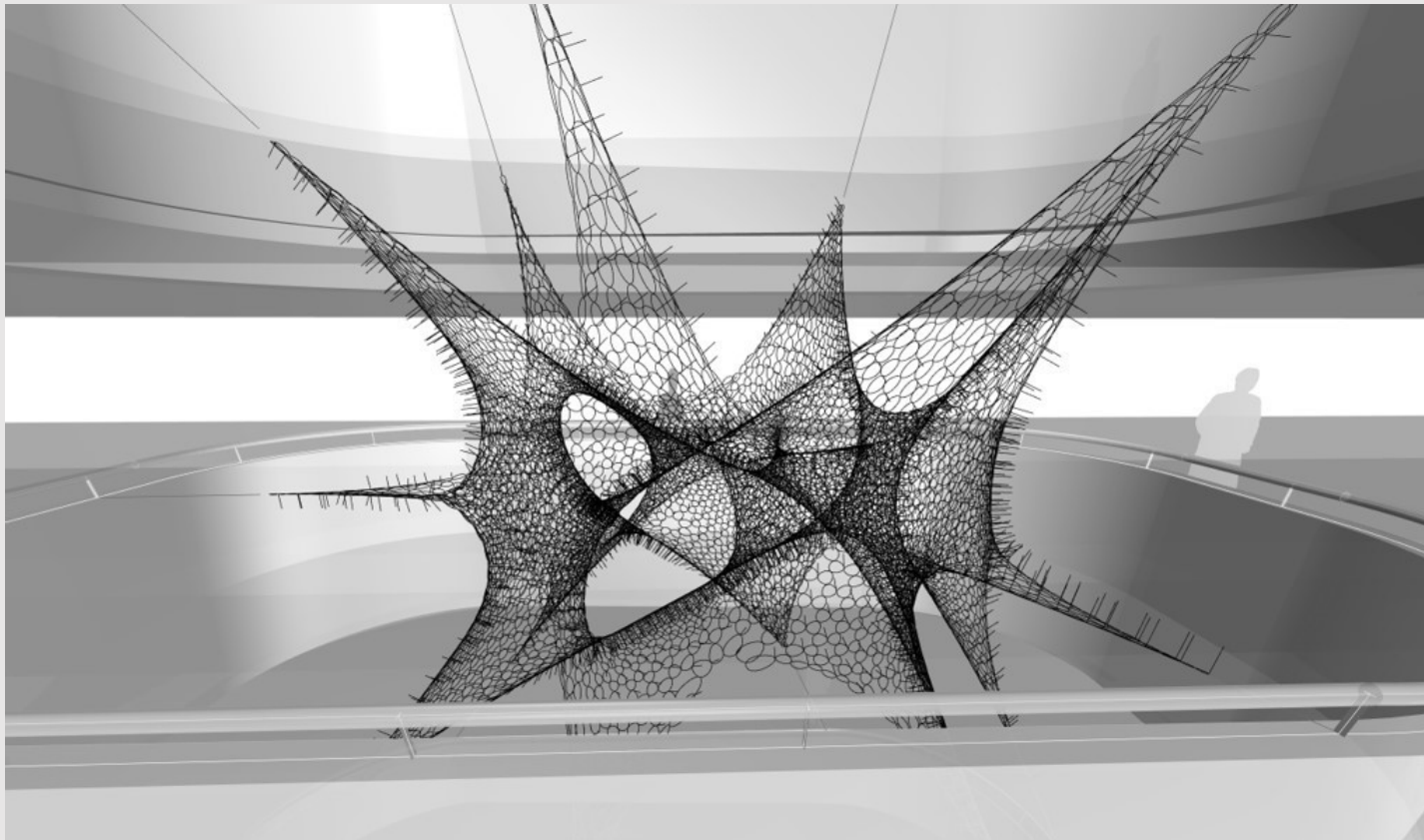
WE USE A VARIETY OF MEDIA AND METHODS...



FROM COMPUTATION...



TO VISUALISATION...



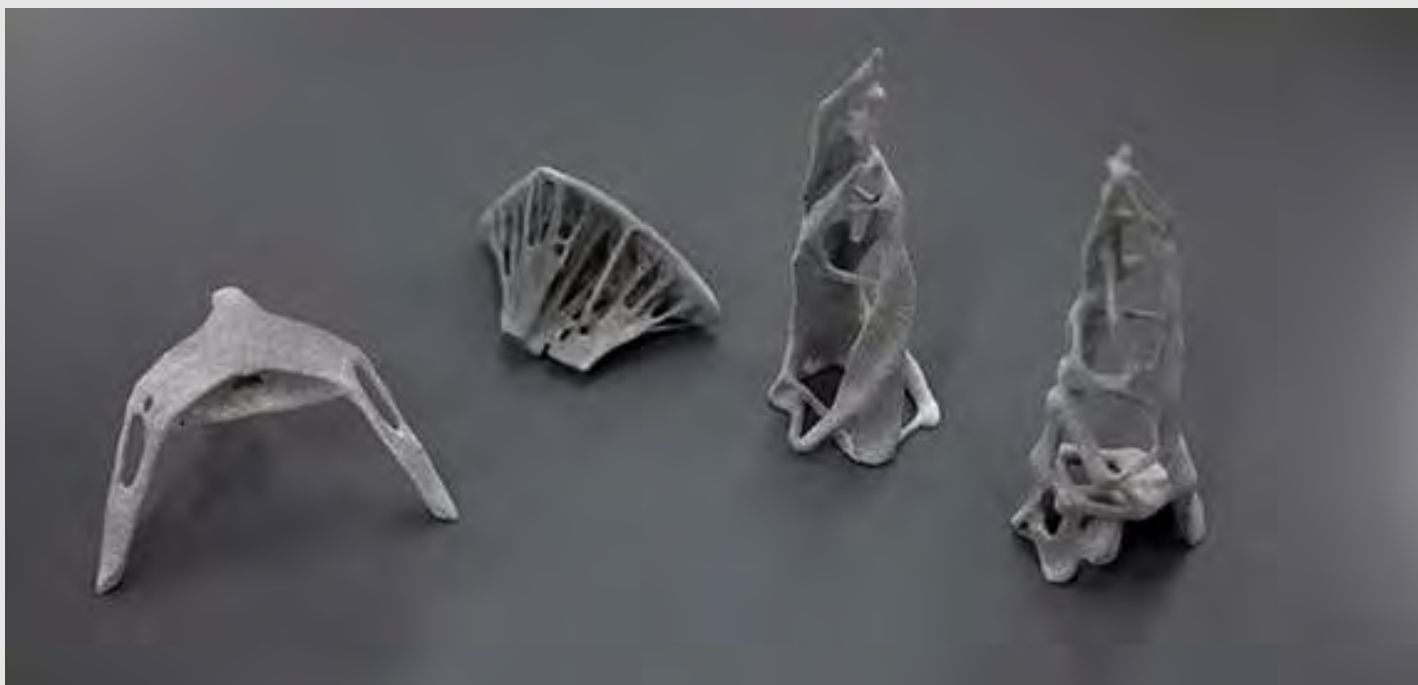
TO DRAWINGS AND TEMPLATES...



TO MANUAL MAKING...



TO DIGITAL FABRICATION



THESE ARE OUR EXAMS... WE CALL THEM CRITS



Students present their proposals, and receive real-time feedback on them, from their peers and a panel of experts including academics and professionals.

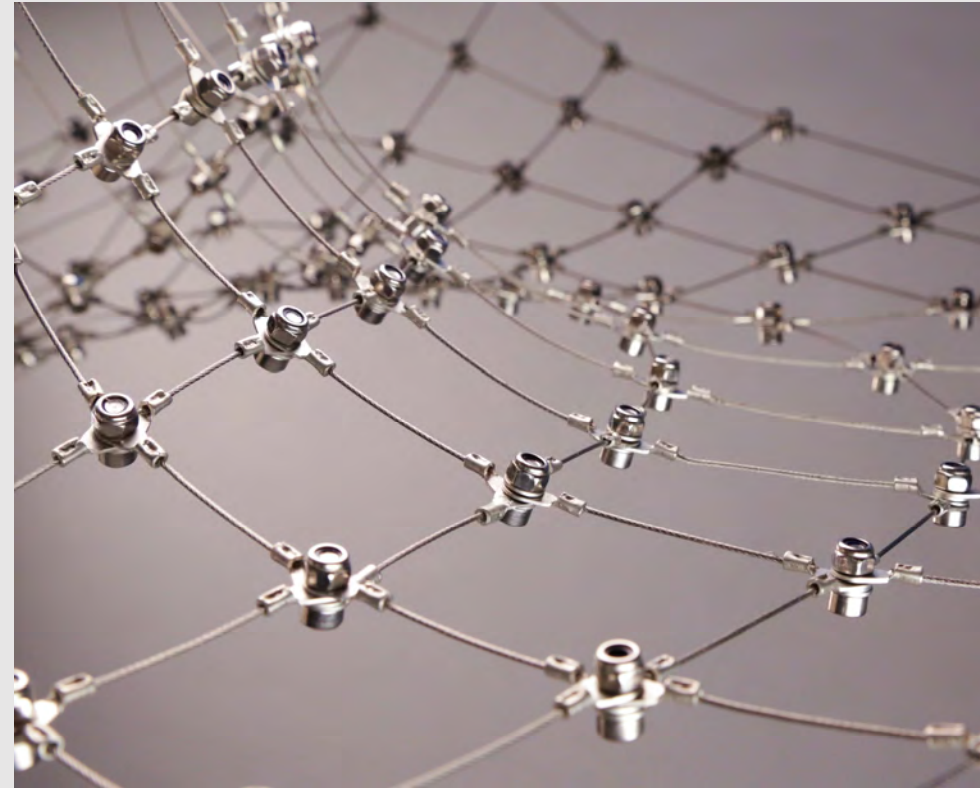
ARCHITECTURAL GRADUATES

Have the ability to:

- Critically and creatively think; conceptualise, represent and analyse built environments; correlate diverse and often discrepant demands and interests, manage diverse teams of experts and stakeholders

Can attain roles as:

- Architects in large and medium-sized practices
- Sole proprietors of architectural practices
- Architects within government and non-government agencies
- Academics/Researchers/Educators



WHY ARCHITECTURE AT SWINBURNE?

- Studio-centric curriculum with opportunities to focus on particular research topics that align with student interest
- World class technology and facilities
- Opportunity to learn about all scales from the fabrication of the detail to the interface with the city
- Industry engagement in day-to-day teaching, regular critiques, and invited lectures
- Preparation for the future of practice locally and globally, such as Industry 4.0
- Potential to work with the Design Factory Melbourne and its global network through electives

WORLD RANKINGS

Rated among the top 1/5 of design schools in the world

Rated among the highest for student experience in the country

Rated the highest for student experience in Architecture and Built Environment in Victoria



FABRICATION FACILITIES



Soft prototyping lab with robotic, laser and additive fabrication and physical computing facilities

INTERDISCIPLINARY COLLABORATION



Mycelium studies in collaboration with biological sciences

Intensive Workshop: IaaC GSS Biodigital Futures: From Coding to Cultivating

CAREER OUTCOMES



- Professional architectural practice
- Multi-disciplinary building services practices
- Government advisor
- Regulatory agencies
- Non-government organisations
- Set design
- Designers of virtual environments
- Fabrication
- Project management

QUESTIONS?

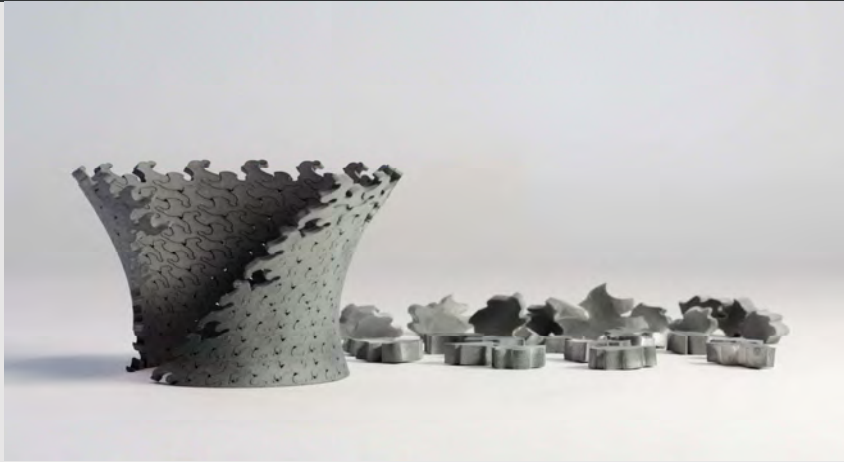


AMY NUCCIO

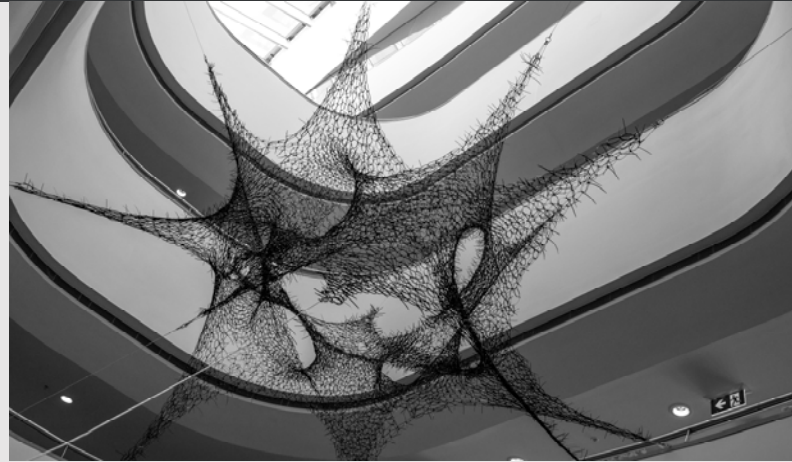
BACHELOR OF DESIGN
(ARCHITECTURE) ALUMNI



HIGHLIGHTS FROM AMY'S SWINBURNE EXPERIENCE



38.8 3D Printed Model



The Void: AMDC Installation



Hang-over: FESTA Installation



Chennai: Slum Relocation Project

FINAL NOTES

- Architecture is not always about designing buildings
- Take every opportunity that is presented
- Accept the challenges and the hard work
- **You get out of it, what you put into it**

THANK YOU

UGTEAM@SWIN.EDU.AU

SWIN.EDU.AU/ARCHITECTURE

