



# MAKER MOVEMENT

29 JUNE - 22 JULY

THU - SUN 13:00 - 17:00

IMAGE: FASHION DESIGN BY INGEBORG STEENHORST

PHOTOGRAPHY BY TIM TRONCKOE

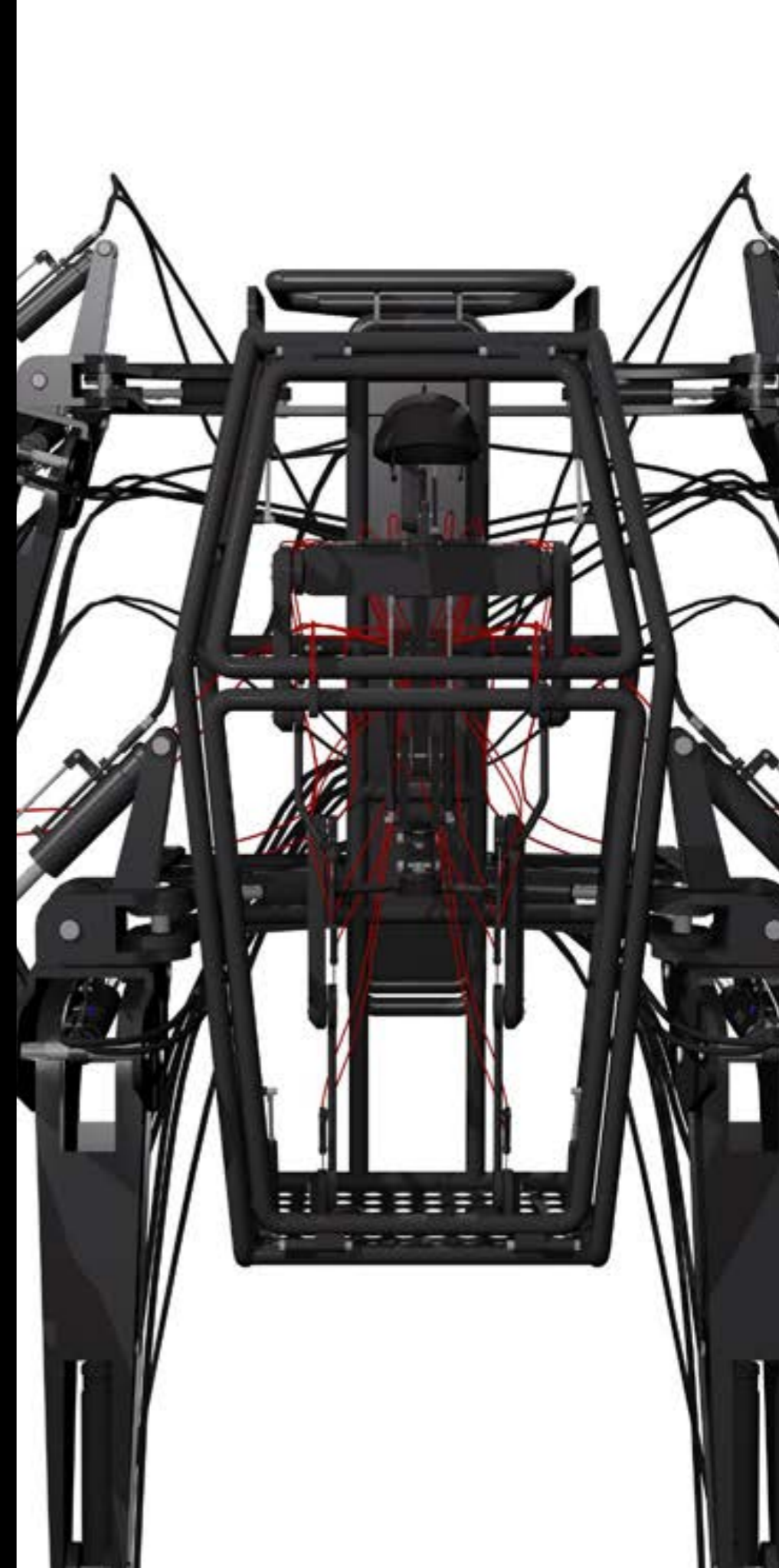
## FREERK WIERINGA

### Homunculus Rex: the process

#### CONCEPT

Homunculus Rex is een exoskelet dat bestuurd kan worden door een persoon. Wanneer de gebruiker beweegt in het exoskelet worden zijn bewegingen direct gekopieerd door de robot, de robot functioneert als een volledig controleerbare avatar. Het werk geeft een mens de mogelijkheid een robot te bedienen en het gevoelscontact met de wereld om hem heen te verplaatsen naar een machine. De persoon in het exoskelet weet na enige tijd wat de robot wel en niet kan doen en hoe hij zich moet bewegen voor een optimale ervaring. De persoon gaat zich aanpassen aan de robot en gaat daardoor anders lopen en anders bewegen. Hij komt als het ware dichterbij de machine die hij bestuurt.

Homunculus Rex is erg sterk. De kracht die hydraulische cilinders kunnen opwekken loopt in de tonnen (afhankelijk van werkdruk en snelheid). De robot wordt groot, denk hierbij aan 4 meter hoog. De vormgeving verwijst naar zware bouwmachines, zoals graafmachines.



PEN

Family Space Cocoon

## CONCEPT

How to arm the body towards invulnerability of the flesh?  
Here is a moving architecture allowing your family to be protected from the elements. Inspiration came seeing kids going to school with their parents, cold, red, snotty face in the winter mornings.



# OTTONIE VON ROEDER

## Post-Labouratory

### CONCEPT

The Post-Labouratory is an answer to the rapid automation of labour and the resulting cultural crisis. It liberates us from the idea of the necessity of labour and supports us in discovering our true desires. It offers participants the possibility to abolish their job by developing a robot that does their labour with the engineering help of post-labour companions.

For the documentation of human skills, knowledge, tools and experiences the working process of each participant is recorded. This documentation feeds the development of the robots but is also stored in the database of the Post-Labouratory.

Through the abolition of their labour, the participants can explore a post-labour future. The post-labour companions assist the participants to reconsider their desires during individual sessions. The creative action of making and discussions about work, leisure and life enables this passage. The Post-Labouratory claims that the quality of automating technology increases if the specialists – people working in the job to be automated – take an active part in the development of the robot. During the development process the robot becomes the apprentice of the participant. The Post-Labouratory combines the skills of the participants and the post-labour companions that include design, engineering and social sciences. The Post-Labouratory supports the transition of workers into non-workers and the building of a post-labour future.



## IVO SCHOOFS | KINETIC HUMOR

Every Day War | Thermographic Art

### CONCEPT

How to arm the body towards invulnerability of the flesh?

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## ATELIER INGEBORG STEENHORST

Turning ordinary into extraordinary

### CONCEPT

It's our mission to design & create with love for Planet Earth. Therefore we incorporate sustainable design techniques next to traditional tailoring. By utilizing materials already made, we try to give our share in reducing the industry's carbon footprint and lower environmental pollution.



## TUe INVOLVED RESEARCHERS:

Zeeshan Yunus Ahmed, Sjef Van Hoof, Barbara Kuit

## INVOLVED STUDENTS:

Alessia Biffi, Jory Rijvers, Roy Soons

Andrea Zambotti, Danielle Grolleman, Michel Martens

Sander Colen, Anna Kulawik, Jonathan Scherptong

Remi Bogaert, Rik Bollen, Michael Yun, Rick Abelen, Rukiye

Galeli, Sinan Onder, Celil Sahin

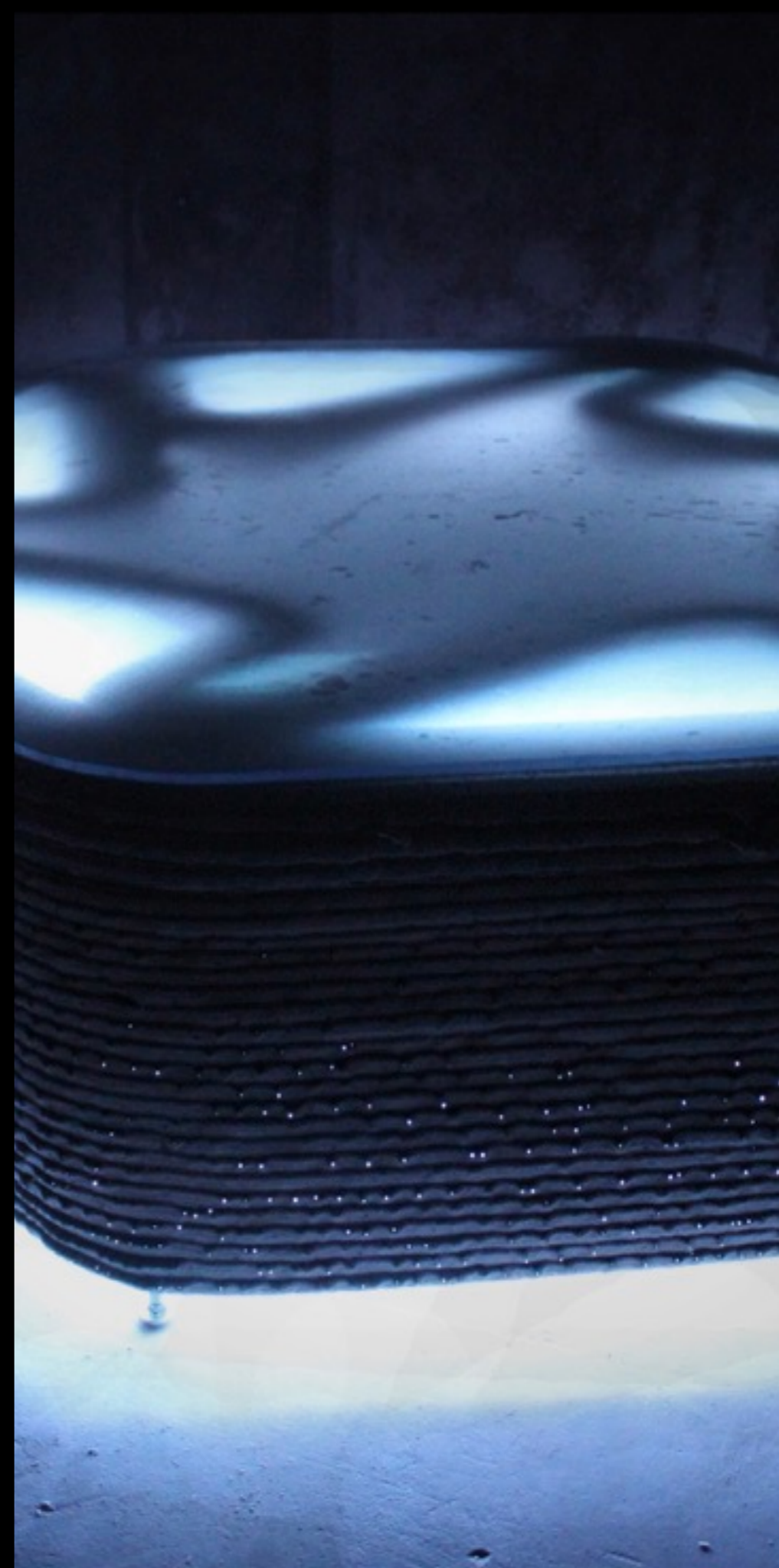
## RESEARCH AT THE END OF THE WORLD (2016)

### CONCEPT

3DCP and LIGHT

How to combine concrete & light

This exciting project is part of the graduation studio with research on 3D printed Concrete, in the context of the historic city of Ghent. Students carefully test and research 3d concrete printed applications on various research aspects, contributing and complementing each-other, all resulting in actually printed 3D concrete objects. A mix of materials, concrete and additive, and a mix of contemporary and historical points of view result in innovative 3D concrete printed proposals.



## ARVID&MARIE

### Formonium

#### CONCEPT

The Formonium is a new electronic musical instrument that originates from research into the relationships between shape and sound. Where most instruments maintain the same visual appearance, the shape changes while it's being played. Its outline influences and adds texture to its sound. To allow the instrument to breach the confines of electronic music, vibration speakers generate haptic feedback in the hands of the musician, which, with the help of highly sensitive sensors, micro movements can be detected for more expressiveness. Through collaborations with musician/composers, the instrument is being explored in its musicality and interaction. As a part of an ongoing research program, we welcome everyone to join us in conversation about the future of hybrid instruments and of musical expressivity.

Developing a musical instrument is a process rather than a goal. For that reason, it is interesting to work with a broad range of users: experienced musicians, amateurs, etc. Because the Formonium demonstrates the relationship between the shape of the instrument and the sound it creates, it was particularly fitting for music education. Formonium kid series was developed especially for children workshops. Five different iterations are now used by Muziekgebouw aan 't IJ to teach children about contemporary music in the Klankspeeltuin sound lab.





## KEKE VAN DE VEN

### Banner Maker Movement

#### CONCEPT

Taking the term maker movement literally. I wanted the large banner outside to capture movement. I got inspired by a photo of a coral reef that I took in a zoo. In the fish tank the anemones were swaying gracefully. I wanted to capture that motion and the bright colour that surrounded that movement.

With a driving passion for textile and texture my work often has more than just a visual aspect. Most of my work is recognisable by its use of textiles and extreme colour contrasts.

By using materials which are recognised and breaking the assumptions about that material I aspire to confuse and captivate the viewer.



TUe EINDHOVEN MASTER STUDENTS – COURSE  
MASTERPROJECT ARCHITECTURE: BRUSSELS,  
THE MAKING OF

CONCEPT

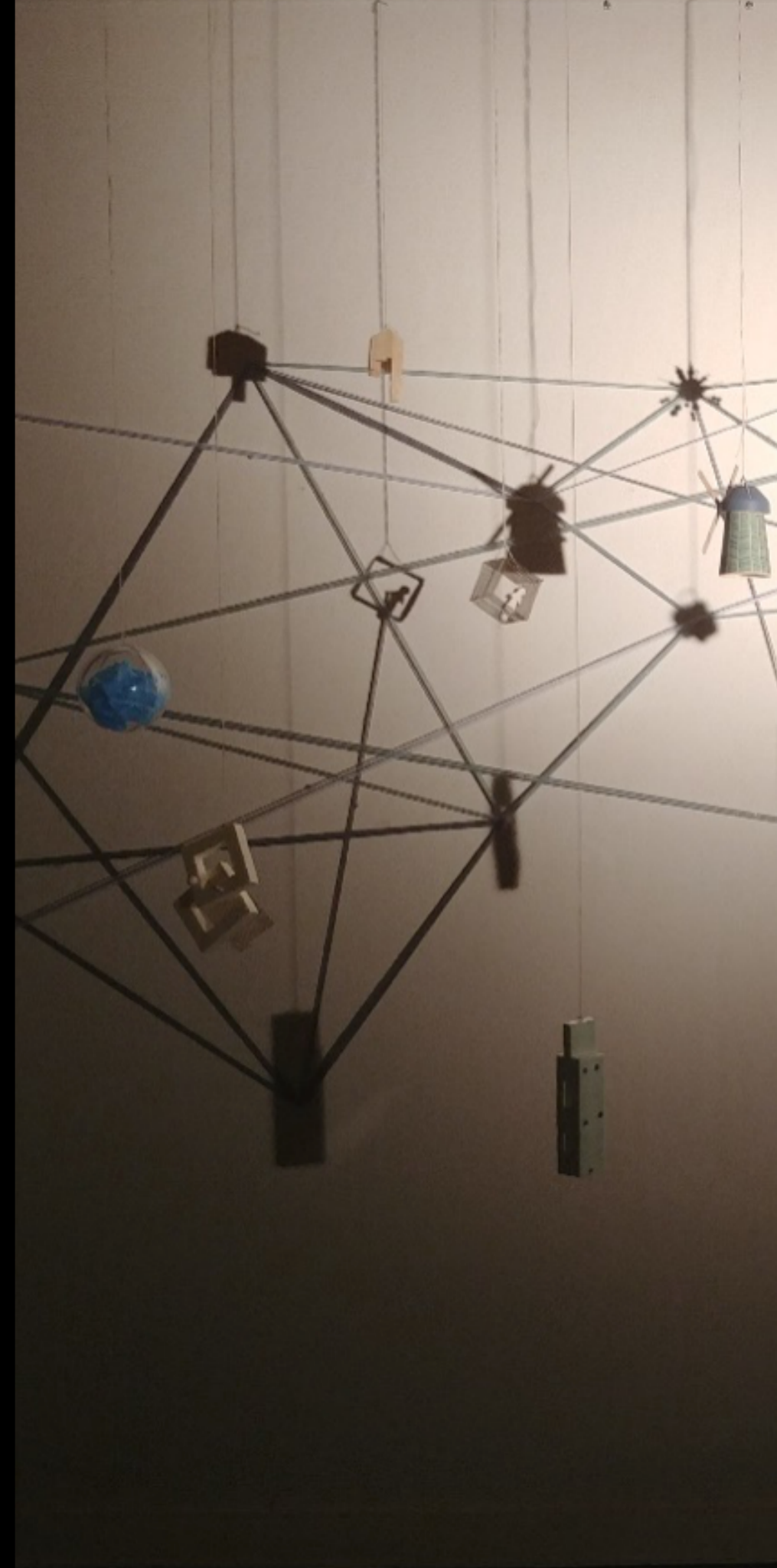
**Organizer**

Chanachai Panichpattanakij, Hizkia Firsto Giovanni, Luca Fiametti,  
Olga pershina, Roy van Der Heijden

**Support**

Alice Cooke, Matteo Acerbi, Paulina Szulc, Yuxiao Wang

We are master students at Master Program Architecture, Building, and Planning Department, TU Eindhoven. Nine of us follow a course called masterproject architecture: Brussels, the making of that is led by Tom Veeger. We have different nationalities background, ranging from South East Asia until Northern Europe, that make the group has unique combination of perspectives and point of views about particular things. The course is related to the maker movement and this 'Maker City' exhibition is one of the output of the course based on the interpretation on the research of maker movement.



GIJS VAN BON

KlosKlok

## CONCEPT

A small fast rotating motor is slowed down so much the speed is not visible anymore. With that unseen speed it pulls down a string from a spool and drops it in the case below. The spool contains the time to come, the case filled with string the time that has passed.



VICTORIA BRADBURY

Electronic Ginseng 2.0

## CONCEPT

Electronic Ginseng 2.0 is an interactive sculptural plant with laser cut leaves, stems, roots, berries and gears. Wild ginseng challenges an east toward west production and trade model. In Chinese medicine, American Ginseng has a calming effect to balance its Yang cousin, Asian ginseng. American ginseng is sought after in China and a complex cultivation and trade industry has grown around the demand. The ginseng plant grows wild in Appalachia and has served as sole or supplemental income for generations of Appalachian families. The wild plant can be elusive and is thought to evade discovery and harvest. This project concerns ginseng's tricky biological, mythological, and economic lore. Lilypad Arduino and custom electronics mediate the interaction.



Information available on:  
[www.albertvanabbhuis.com](http://www.albertvanabbhuis.com)



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