

EXPLORATIVE RESEARCH AND PRAXIS SEMINAR 3

**PRODUCT DESIGN, INDUSTRIAL DESIGN, TRANSPORT
DESIGN & ENVIRONMENTAL DESIGN**

MATT ARCHER

25.02.22

CHALLENGING PERCEPTION

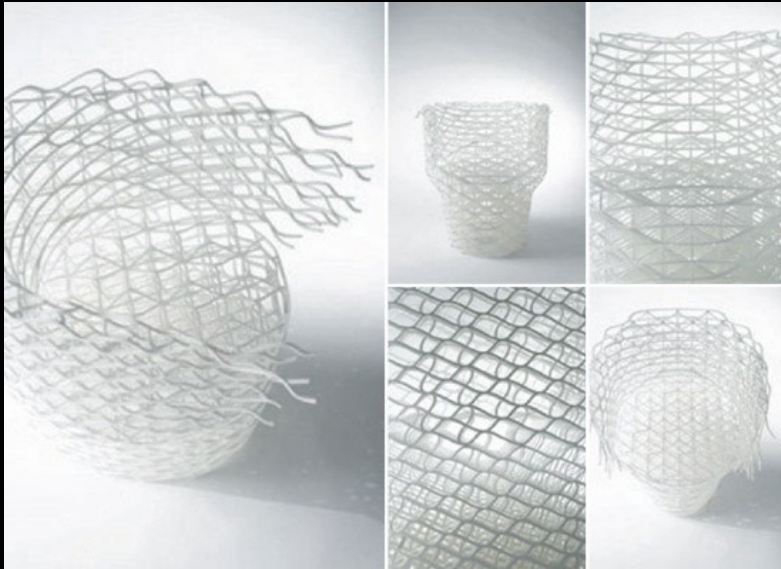
Paper dresses by Jum Nakao



Experimental product design in paper - Nendo



Experimental product design in paper - Nendo



Soft seating solutions and experimental product design in paper - Molo



Cardboard interiors - dARCH Studio

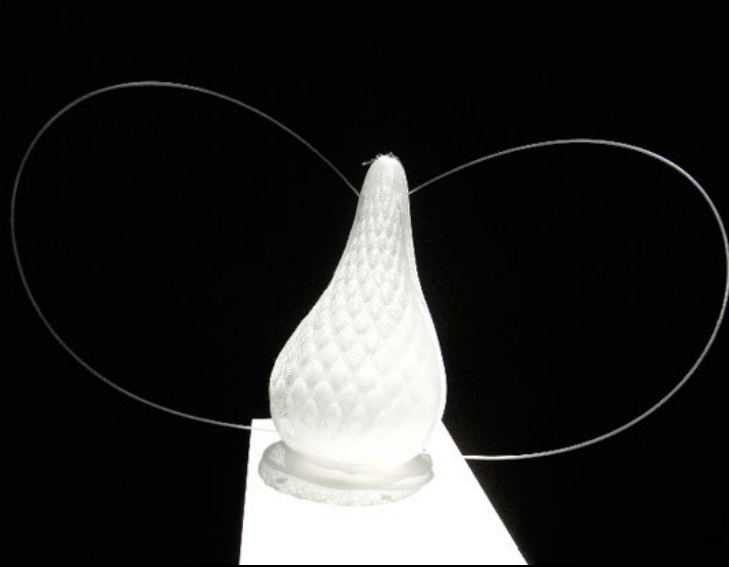


Tokyo Senseware Exhibition – Milan



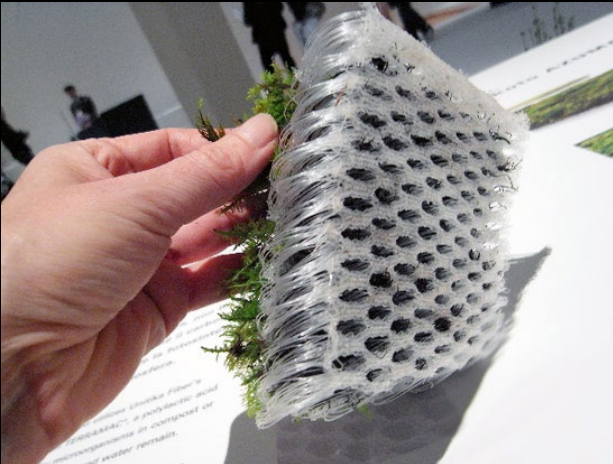
- Creative people were asked to design using the new technology
- New materials exhibition
- Development of innovative artificial fibres (ultra-fine nanofibres – 1/750 thickness of human hair)
- Intelligent materials
- Delicate, sensitive, malleable, rigid and flexible materials

Tokyo Senseware Exhibition – Milan



- Ross Lovegrove's Seed of Love backpack
- Triaxial woven fibre, gives greater stiffness with less fibre
- Lightweight and elegant with lots of detail possible

Tokyo Senseware Exhibition – Milan



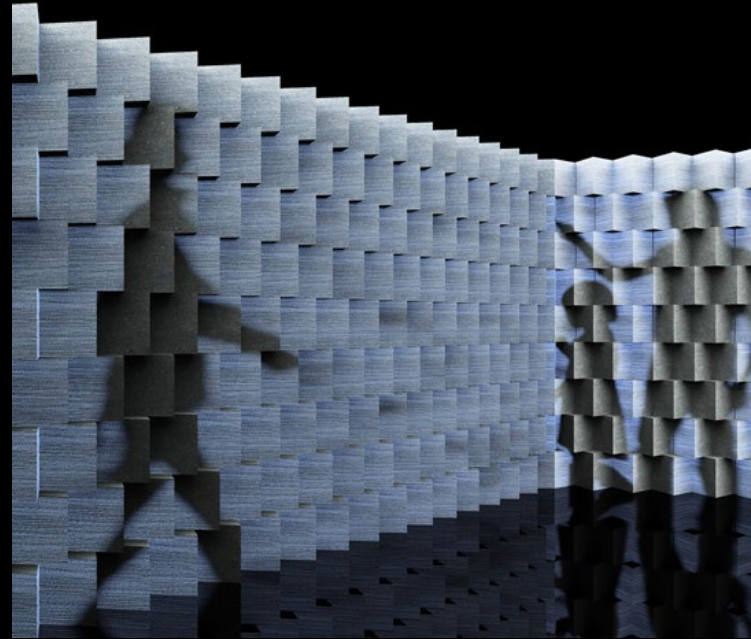
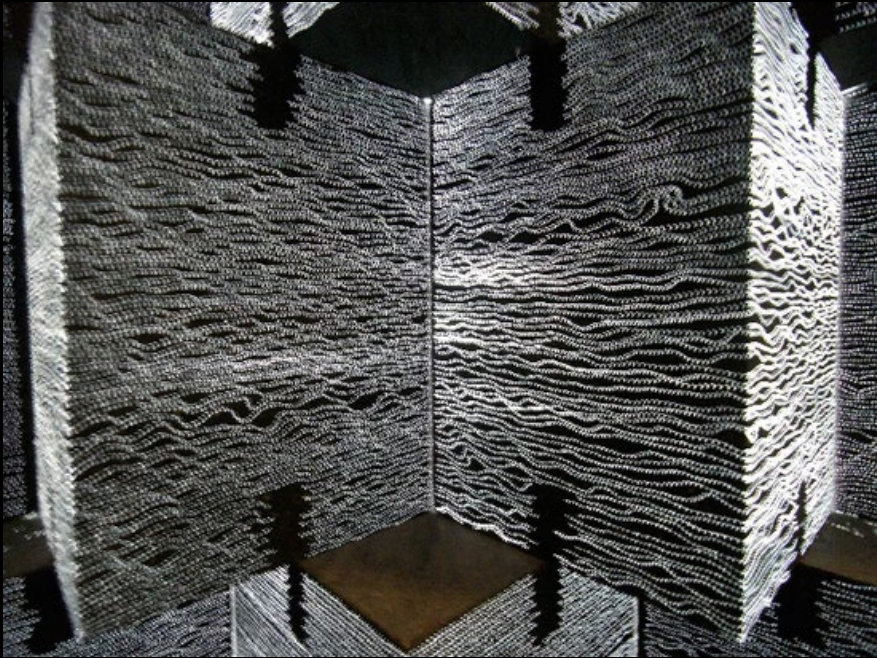
- Makoto Azuma – ‘Time of Moss’
- terramac® - made from polylactic acid derived from plants, is a biodegradable, eco-material that returns to the soil
- Encourages growth of seeds as they emerge
- Growth gently spreads across the material

Tokyo Senseware Exhibition – Milan



- Jun Aoki – ‘thin beam’ ultra long cantilever lighting
- Carbon fibre strength under tension (Torayca)
- The light stretches across the room over 5 chairs set apart

Tokyo Senseware Exhibition – Milan



- Kengo Kuma – Eska plastic optic fibre by Luccon
- High strength concrete embedded with optical fibres, letting light through
- Looks solid but when lit from behind, projects light and shadow or images

Tokyo Senseware Exhibition – Milan



- Fukitorimushi Panasonic Corporation
- Autonomous cleaning inchworm robot using nanofibre fabric wipes up micro-dust and oil films
- Has more than 10 x surface area and pores of normal fabric - 1/750 diameter of hair
- Final product would use sensors to detect dirt and roam around freely like a living creature
- http://www.youtube.com/watch?v=XcV7yK-bHAY&feature=player_embedded#

Johannes Tsopanides & Johanna Spath: Soundplotter – an interactive, experimental design



- Reacts on sound input - scream, sing or make a sound
- Object is many little cubes in rings or layers
- When there is sound input, cubes get longer and sound is captured
- Converts it to a 3D shape, RP produced
- Formed via a programming language called 'Processing'

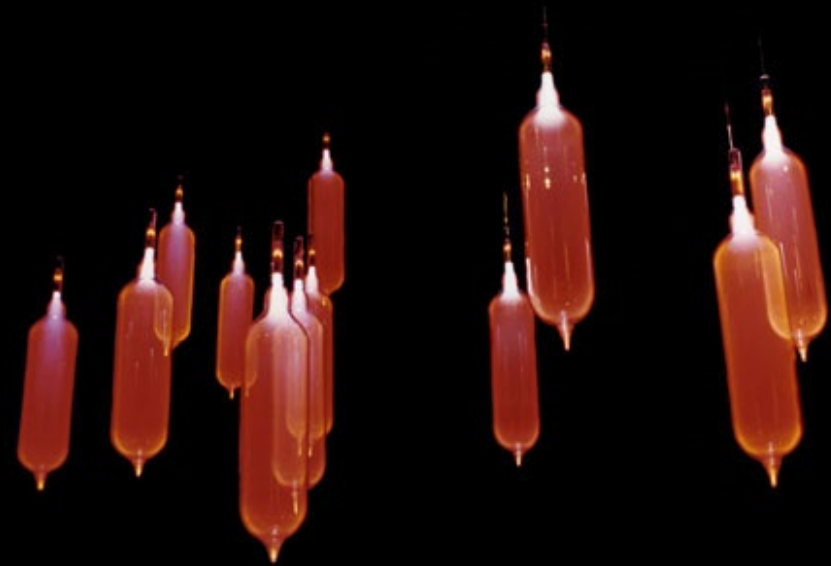
Max Lamb: Experimental sand casting - Interesting techniques - Alternative



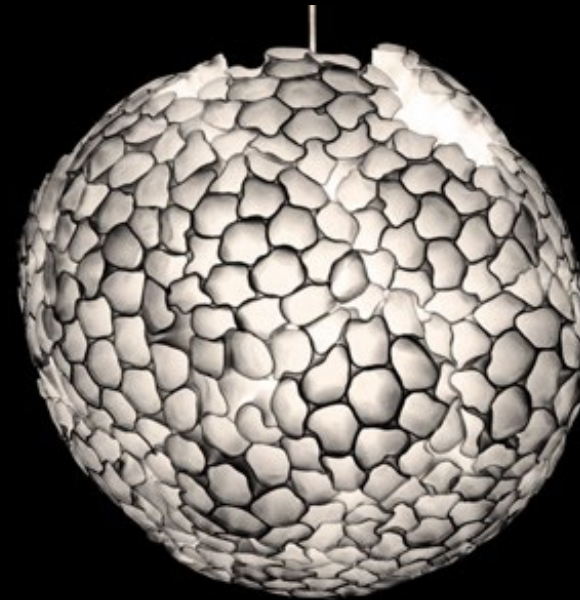
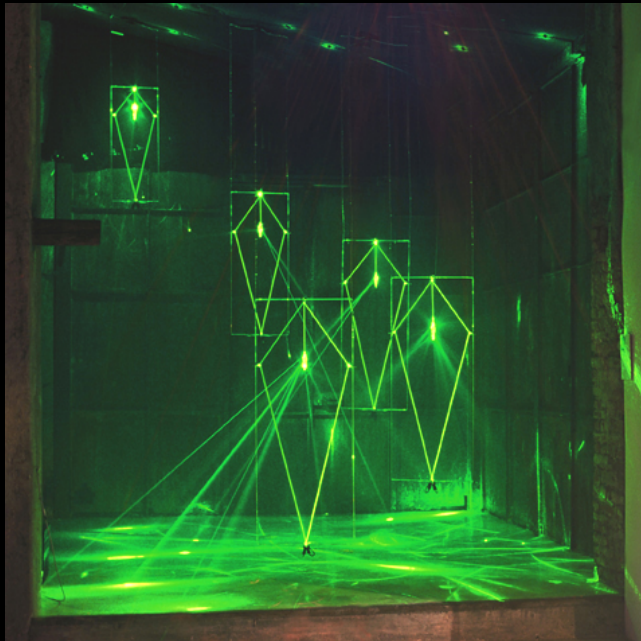
Paul Cockledge: Lighting & Installation designer - Lateral thinker - Highly experimental, creative, techi and commercial!



JNI DI MILANO



Paul Cockshed: Lighting & Installation designer - Lateral thinker - Highly experimental, creative, techi and commercial!



Julia Lohmann: Controversial figure - Highlighting how we treat the environment and animals - seaweed and sheep stomachs



Shin Azumi: Pared back aesthetics - High on functionality



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Black and Blum: Sustainability & Longevity - discourage single-use plastics and food waste

