Top Prize

NANYANG TECHNOLOGICAL UNIVERSITY
School of Mechanical and Aerospace Engineering

Hydro-shift top

By Lim Kae Woei, xyz workshop, Australia

While researching on water technologies and sustainability, we were compelled by an image of the electrolysis of water to create hydrogen. The idea that pure clean energy can be a harnessed from water has great potential in the field of sustainable energy. Focusing on the water molecules' transient change of state, we express this in the design with a series of solid and "open" spheres. The network of "open" spheres created a lace-like fabric, which created a contrast between the solid and transparent pieces. At a micro level, stillness is embodied by the ripple-like patterns, which has a texture that alludes to a traditional textile weave. The silhouette of the design echoes a traditional Chinese cheongsam, creating an intriguing dialogue between tradition and technology.

Technique: **FDM (Flexible PLA)**

Commendation Prize

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Water

By Tan Yu Jun (team), Nanyang Technological University, Singapore

The inspiration came from the word "water" in Chinese calligraphy. Water is the essential part of life. Without it the earth will look dull and colourless. So with this design we hope to achieve the movement of water falling from the sky. The characteristic of the joints echoes the flexible structure of water, and the versatile element of transformation of water, in the gradient change of colour. The colour density of the U chain decreases from ivory to clear, from opaque to translucent, just like water in transformation to different states – ice, liquid and vapour. From the top to the bottom, the size of our chain increases from small to large. Just like us viewing the raindrops falling from the sky, as it moves closer to our eyes. The falling rain droplet leaves its final touch on our hand with its tear drop shape deformed into a splash, like that single big unit you see at the bottom section of the garment.

Technique: Polyjet & FDM (ABS and RGD 720