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Explore day-to-day innovations and complex engineering marvels at *Future Makers* Exhibition at Science Centre Singapore

SINGAPORE, 18 June 2019 – Engineers make things happen and Science Centre Singapore’s new *Future Makers* exhibition celebrates the valuable contribution that engineers have made to shape our lives. Imagine what life would be like without life-saving medical equipment or pollution controls to preserve the environment. Beyond solving everyday problems, engineers are now helping to address complex issues such as disaster recovery, climate change mitigation as well as clean energy generation, distribution and storage.

They design and build everything from skyscrapers to robots. They turn products of imagination into real-world innovation. From AR and cybersecurity solutions to driverless cars and a connected network of smart internet devices - things we often take for granted are all possible because of engineers.

The *Future Makers* exhibition aims to encourage guests to think and act like engineers. It explores day-to-day innovations as well as complex engineering marvels that have shaped and changed lives. Aimed at young adults, guests visiting *Future Makers* can catch a glimpse of the modern engineering world, get hands-on with the interactive exhibits and problem-solve their way through an escape room.

“*Future Makers* is an exciting and important exhibition that powerfully demonstrates how engineering is creating the future. Increasing dependence on technology means we need more engineers but beyond being just another profession, engineering is a mindset that thrives on curiosity. It’s about approaching life with a problem-solving mentality. Through the exhibition, we hope to encourage our guests, particularly the youths, to see the world through the engineering lens and build a new generation of problem solvers,” said Associate Professor Lim Tit Meng, Chief Executive of Science Centre Singapore.

Future Makers exhibition has five themed zones featuring over 15 new interactive exhibits –

Zone 1: Atrium

A newly designed space, the journey to *Future Makers* starts at the Atrium where guests can choose to access the exhibition directly by climbing the newly built stairs or by hand-cranking their way up using the manual elevator.



Zone 2: Object Theatre

Taking centre stage at the exhibition is the Object Theatre featuring four industrial robotic arms each carrying a large format screen. The robots which resemble giant arms, exhibit their own personalities while displaying a video that tells the scope of modern engineering.

The four screens provide a high-tech visual enhancement to the storytelling, moving in pre-programmed synchronization to the animations in various formations. Together in a row, they display a large cohesive video, and apart, they show individual, coordinated images that jump virtually from screen to screen. The combined choreography of screen movements and innovative display is an entertaining showcase of extraordinary engineering designed by Andy Flessas and his team of specialists-experts.

Andy, also known as the “robot whisperer”, is an American robotics designer who gained prominence in 2010 when his revolutionary RoboScreen® technology travelled the globe as an integral part of the Bon Jovi Circle Tour. Since then, Andy’s robots have performed for millions in every major arena on every continent from the Peking Opera House in Beijing to Madison Square Garden in New York City. Aside from enhancing the entertainment factor in the showbiz world, Andy’s robotic software systems and robots are also employed by NASA’s Jet Propulsion Laboratory.

Zone 3: Interactive Exhibitions on Modern Engineering

People are at the heart of the Future Makers exhibition and this gallery celebrates the contributions of engineers across five themed modules. The five modules each feature a modern engineering problem and describe how engineers solve it in 15 hands-on exhibits. From mega structures to plant-based food, the interactive challenges at each module allow young adults to engage in engineering by bringing to life the modern innovations and skills engineers use every day. Each module releases a set of secret codes upon solving the interactive feature and guests are set on a mission to acquire all five codes from this zone to unlock the “escape-in” room in Zone 5.

The five modules are:

1. *Big Things* – From the beautiful taller-than-the-Eiffel-Tower “sky bridge” in Millau, France to our very own Marina Barrage, this module looks at the megastructures of the world and how they are built to last.
2. *Life & Leisure* – Fashion, food and the promise of a “smart” world. This module looks at contemporary issues in our world that engineers can help mitigate.
3. *Body Builders* – Penicillin was perhaps the first antibiotic that was hard to mass-produce till Marie Curie took on the challenge and saved countless lives during World War II. This module explores the important biotechnological-bioengineering inventions that have and will change the future.



4. *Going Places* – From how the designers of the Japanese Shinkansen bullet train to the dreams of going to Mars on SpaceX's reusable rockets, explore the possibilities for transportation in this module.
5. *Making Change* – This module profiles engineers whose hearts are invested in helping the rest of humanity in very pressing, real and even deadly problems – from the female environmental health engineer helping to provide cleaned-up, potable water, to the billionaire-philanthropist who tasked engineers to find a way to provide electricity to the rural poor.

Zone 4: Drone-Rover Arena

In this specially created indoor-outdoor space, guests can learn to fly drones and navigate rovers through a challenging landscape.

Zone 5: Escape Room

Guests with the five secret codes can now use them to access the escape room. In this space-themed experience, guests are challenged to repair and re-activate a crashed spacecraft in order to prevent an alien invasion.

Future Makers is a permanent exhibition running at the Science Centre Singapore at Hall G on Level 2. For admission to Future Makers and up to six different gated attractions at Science Centre Singapore, purchase the all-in-one Dino-Mite Passes and enjoy savings of up to 40%. Passes can be purchased online at <https://www.science.edu.sg/visit-us/ticket-prices> and onsite at Science Centre Singapore's ticketing counters.

More details about the exhibition can be found at <https://www.science.edu.sg>, or, visit us <https://www.facebook.com/ScienceCentreSG/>.

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About Science Centre Singapore

Science Centre Singapore, a non-formal educational institution and leading regional Science Centre, along with its group of attractions, brings out the wonders of science, technology, engineering and mathematics through its unique blend of exhibitions, educational programmes and events. A custodian of creativity and innovation, Science Centre Singapore has captured the evolution of scientific developments for nearly four decades.

The Centre and its partners have played a pivotal role in transforming the way students and the public interact with and learn about science, technology, engineering and mathematics. Since 1997, the Centre has welcomed over 30 million visitors and inspired them with more than 1,000 exhibits spread across 14 exhibition galleries and outdoor exhibition spaces.

The Centre's group of attractions include Omni-Theatre, Snow City and KidsSTOP™. The Omni-Theatre is an immersive dual-technology edutainment destination fitted with Southeast Asia's largest seamless dome screen and featuring the latest and brightest 8k digital full-dome system in the world. Snow City is Singapore's only permanent indoor snow centre offering an Arctic inspired experience at Singapore's first ice gallery and snow chamber. KidsSTOP™ - Where every child gets to Imagine, Experience, Discover and Dream - is Singapore's first children's science centre offering an enriching experience through purposeful play for children aged 18 months to 8 years old. For more information, please visit www.science.edu.sg.