

CHANGE MAKERS 04



S SCIENCE **T** TECHNOLOGY **I** INNOVATION **C** CREATIVITY **K** KONFERENCE

19 to 23 August 2015
Singapore



FOREWORD



Tomoko Ikari

YA Executive Director

Dear Regional Youth Leaders,

Welcome to the inaugural Science & Technology Innovation and Creativity "K"onference (STICK) organized by Youth Ambassadors (YA) here in Singapore!

YA is a non-profit social enterprise established to empower youths in the ASEAN region and beyond. We do so by providing youths with opportunities to participate in educational conferences and activities. We also facilitate the incubation and implementation of socially meaningful projects conceptualized by our event participants with the aim to improving their respective communities. In YA, we believe that every individual, especially the youths, has a critical role to play in creating positive changes.

STICK is an annual youth conference that brings together aspiring participants who are keen in understanding the importance of science and technology. Through a series of educational field trips and stimulating workshops, we hope that you will be inspired to create impactful changes within your own communities. Quantum leaps in the development of science and technology has led to the colossal progress of our civilization. Themed around "one world", the vision to unite people, nation and cultures, STICK is an excellent vehicle to bring students together to share ideas and values - to make a difference.

Once again, we look forward to meeting with you, our dear participants, and be inspired by your innovative ideas toward making the world a better place for us to live in! Last but not least, we would like to express our heartfelt gratitude to our partners and supporters who have helped us realise our dream of STICK 2015. Thank you all!

"An experiment is a question which science poses to Nature, and a measurement is the recording of Nature's answer"

**Max Planck
(1858 to 1947)**

Tomoko Ikari

YA Executive Director
(on behalf of the YA team)

About Youth Ambassadors

Youth Ambassadors (YA) is a non-profit social enterprise dedicated to empower youths in ASEAN countries and beyond to become change makers in their respective communities. We specialise in organizing educational conferences for youths, offering them a platform to learn and be inspired through various activities, workshops and presentations. More importantly, we aim to promote positive interaction and cooperation between youths of different ethnicity with diverse cultures. Some of our flagship programmes include Youth Environmental Summit (YES) and Asian Student Leadership Conference (ASLC).



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Team Challenges



CHALLENGE 1

Aerodynamics

- Participants will be challenged with variety of materials provided to come up with the perfect airplane design.
- The air planes would be tested both for the distance they can travel and the longest Air time.



CHALLENGE 2

Extend-a-Stick

- Participants would be tasked to create a longest free standing stick balancing marbles at the end - can build on the floor or table top



CHALLENGE 3

Rocket Science Or Bridge Building

- Participants would create the best rocket that stay in the air the longest.
- Participants would build in teams the strongest bridge using paper and tape
- Use of water, air, baking soda, vinegar and other materials
- The load will be tested and the strongest wins the challenge.

SCIENCE CHALLENGE

Energy

- Energy in our surrounding and how to capture
- Energy and waste problems
- Environment and Electricity
- Potential and Kinetic energy

Presentation

- The good, the bad and the ugly
- Articulation, clear and concise methods
- Words and Images
- Confidence and working together in a team

Tower

- Engineering skills in making a Tower
- Science, forces and construction problems
- Team collaboration, best solutions

3D Printing

- Technology today and Future
- Why 3D?
- Uses and Applications in today's world
- 3D Designing skill

Robotics

- Robotics of the future
- Programming and building robots
- Discussing and solving future problems



Image from the left, Energy, 3D printer, Robotics and Tower

01 PROGRAM

Day 1

19 August 2015 Wednesday

1530 – 1700

**Teambuilding & Ice
Breaking Games @
respective accommodation**

1400 – 1530

Arrival to Singapore
Transfer to respective
accommodation
Check-in

1700 – 1800

Dinner

1800

Free & Easy

02 PROGRAM

Day 2

20 August 2015 Thursday

1200

Lunch

0700 – 0800

Breakfast

0800 – 0900

**Transfer to
National University
Singapore PGP**

1400 – 1500

**Transfer to
Science Centre
Singapore**

1500 – 1845

Science Centre Singapore

1845 – 1930

**Transfer to
accommodation**

0900 – 1400

**Introducing STICK &
"The One World" Theme
by Whizz Kidz**

Mission of the Day (3 Challenges)

- Aerodynamics, perfect airplane design.
- Extend-a-stick, longest free standing stick balancing marbles.
- Rocket Science / Bridge Building
- "The One World" sharing session

1930 – 2030

Dinner



Science Centre Singapore

- Interactive exhibits, housed in 14 galleries, cover a wide range of topics related to science, technology and mathematics.
- 20,000m² of outdoor exhibition space showcasing the Waterworks exhibition, Kinetic Garden and Ecogarden.
- At Omni theatre, an IMAX movie is screened on the dome screen using an IMAX film projector.

03 PROGRAM

Day 3

21 August 2015 Friday

0700 - 0800

Breakfast

0800 - 0900

**Transfer to
National University Of
Singapore (NUS)**

0900 - 1200

**Science discovery
workshops
- 5 Rotating Stations**

- Energy
- Tower
- Presentation
- Robotics
- 3D Printing

1200 - 1300

Lunch

1300 - 1730

**Science discovery
workshops
- 5 Rotating Stations**

- Energy
- Tower
- Presentation
- Robotics
- 3D Printing

1730 - 1830

Dinner

1830

**Return to respective
accommodation**

- Students will discuss & prepare for the next day's presentation



“Whizz Kidz has an experienced team of full-time and part-time instructors who are graduates and undergrads from NUS and NTU Science and Engineering faculties, as well as MOE teachers. Instructors are carefully selected and matched to specific groups to ensure excellent quality of instruction and rapport with the students.

Whizz Kidz Fun Science, invention club, Technology and Movie making ECAs are currently running in over 18 International schools across Singapore including UWCSEA Tampines, UWCSEA Dover, Overseas Family School, Canadian International Schools, Overseas Family School,

Etonhouse International School campuses, etc.. Whizz Kidz also provides workshops for SAFRA, CDAC, and many other organizations. Whizz Kidz runs vacation camps at these schools for the past 5 years during each school's holiday period and has tremendous experience in providing great camps. We are an experienced organization that possesses expertise at nurturing the love for science in children between the ages of 5-17-year-old.”

04 PROGRAM

Day 4

22 August 2015 Saturday

0700 - 0800	Breakfast
0800 - 0900	Transfer to National University Of Singapore
0900 - 1030	Presentation preparation
1030 - 1100	Presentation & Competition (Judging)
1100 - 1130	Prize presentation ceremony & Photo-taking session

1130 - 1230	Lunch
1230 - 1330	Transfer to Marina Bay Sands - ArtScience Museum
1330 - 1530	ArtScience Museum
1530 - 1600	Transfer to Marina Barrage
1600 - 1700	Marina Barrage Tour
1700 - 1800	Dinner
1800 - 2100	Free & Easy Shopping @ Marina Bay Sands
2100	Transfer to accommodations

05 PROGRAM

Day 5

23 August 2015 Sunday

0700 - 0800	Breakfast
0800 - 0830	Checkout from accommodation
0830 - 2359	Transfer to Airport



Arts & Science Museum @ Marina Bay Sands

- Opened in 2011
- World's first ArtScience museum
- Featuring 21 gallery spaces totalling 50,000 square feet
- Sustainability features

Rainwater is harvested and channelled down the center of the building, flowing through its bowl-shaped roof into a reflecting pond at the lowest level of the building. The rainwater is then recycled for use in the building's restrooms.



Marina Barrage

- A dam built at the confluence of five rivers for water sustainability in Singapore
- Officially opened on 1st November 2008
- Provides water storage, flood control and recreation
- Downtown freshwater Marina Reservoir - Singapore's 15th reservoir
- International award winning project
- Features include,
 - The Marina Bridge
 - The Solar Park (green feature)
 - The Green Roof
 - The Pump House

Delegates



Brunei

Sekolah Menengah

Yayasan Sultan Haji

Hassanal Bolkiah

Muhammad Afiq Hamizan Bin Asmad

Nur Haziqah Imanina Binti Asmad

Ak Mohd Aiman Darwisy Bin Pg Abdul Rahman

Kenza Binti Haji Harif

Amir Zulfiqar Bin Haji Mohammed

Indonesia

Sekolah Lentera Kasih Jakarta

Abraham Lim

Ethan Daniel Prawiro

Fernando Daud Sutama

Cliff Christian Chen

Nathan Kenneth Wibianto

Nathaniel Jaury Surya

Ryan Suryadi

Delvina Kurniawan Wijaya

Inez Olivia Putri

Aganetha Lynette Tanaka

Vindhya Vikash Chugani

Anastasia Kristabella

Isabella Priscilla Sjukur

Clarissa Jap

Pingky Pawitraj

Shelby Liong

Sharon Mintarno

Philippines

University of San Carlos

Andrea Evette G. Antepuesto

Edwina Grace L. Escobido

Mary Angelique Jore Tabasa

Eirah Nicole Gregory Florendo

Norielle Therese D. Reston

Anthea Kaye B. Guarin

Samantha Jule M. Ebarle

Norberto James D. Reston

Lloyd Emmanuel Salve Oliva

Yul Vincent E. Sullano

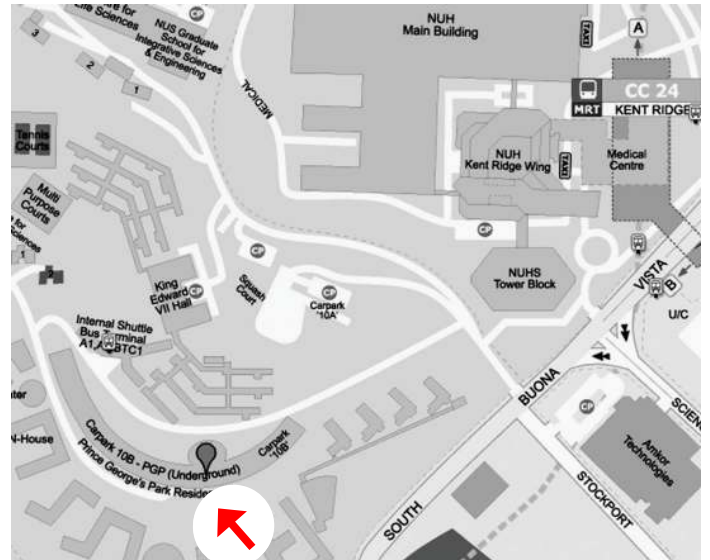
Prestine Blaire Niez

Silliman University Junior

High School

Kris Jypson Tolete Esturas

CONFERENCE VENUES



**National University of Singapore,
Prince George's Park Residence**

Address

Prince George's Park Residence - National University Of Singapore (NUS), 35 Prince George's Park, Singapore 118429

Mrt: Kent Ridge MRT



Science Technology Innovation Creativity “K”onference 2015

Organizer



Endorsed by



Official Travel Partner



Powered by



Venue



Special Thanks



Partners



Youth Ambassadors Upcoming Events in 2015 & 2016

ASIAN TOURISM AND HOSPITALITY YOUTH SUMMIT (ATHYS)

DATE: DEC 9 - 13, 2015

YOUTH ENVIRONMENT SUMMIT (YES)

DATE: JAN 27 - 31, 2016

ASIAN STUDENT LEADERSHIP CONFERENCE SINGAPORE (ASLC)

DATE: JULY - AUGUST, 2016

YOUTH ENVIRONMENT SUMMIT (YES) BALI

DATE: JUNE, 2016 (TBA)

ASIA ARTS FESTIVAL (AAF)

DATE: JUL-AUG, 2016 (TBA)

ASIA MATH ENGINEERING COMPETITION (AMEC)

DATE:(TBA), 2016