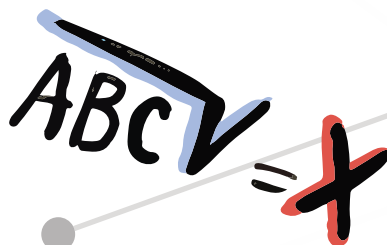
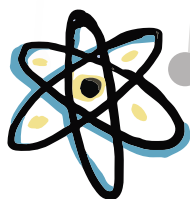


CHANGE MAKERS 07



13 to 17 July 2016
Singapore



S SCIENCE TECHNOLOGY INNOVATION CREATIVITY “K”ONFERENCE

13 to 17 July 2016

In Singapore

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).



- ✉ : enquiry@sgyouthambassadors.org
- 🌐 : <http://sgyouthambassadors.org>
- ☎ : Adrian (+65) 9851 9238
- ☎ : Transinex: (+65) 63383734

FOREWORD



RUO MEI CHUA
Founder and Chief Impact Officer
SUTW Impact Consulting

Dear Regional Youth Leaders,
Welcome to Science & Technology Innovation and Creativity "K"onference (STICK) 2016!

These are exciting times for all of us. Once the exclusive preserve of Silicon Valley geeks, now 3.2 billion users worldwide are connected to the World Wide Web, prompting a tidal wave of global collaboration, and open-source app creations.

Non-existent just 10 years ago, smartphones and related innovations have taken our world by storm; many can now hardly imagine a life without their Androids or iPhones, WhatsApp/ WeChat, Google Maps, Gmail, YouTube and convenient cloud storage systems.

With such an unprecedented rate of change and technological disruption, what do our youth need to stay globally relevant and competitive? Research suggests that beyond hard skills, the evolving global workplace values even more the intangibles—specifically good communication skills, a positive growth mindset and the ability to work in teams.

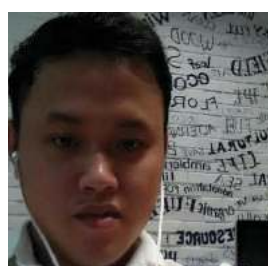
With the rising importance of emotional intelligence and the ability to work in cross-cultural teams, bright young leaders like yourselves will do well to take these skills as seriously as your technical pursuits of science, technology and creative engineering. Expect to be stretched beyond your comfort zones at STICK 2016 as you learn to work in mixed teams, innovate around resource constraints, and apply the principle of prototyping along the way. Expect also to have tons of fun as you take in Singapore's own innovation and R&D journey and apply it to your own national and regional contexts.

We are thrilled for what's ahead. See you there!

"To innovate does not necessarily mean to expand; very often it means to simply"
- M. Russell Ballard



Youth Ambassadors Team Members



SCIENCE DISCOVERY WORKSHOP

Team Challenges

ENERGY

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



TOWER

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



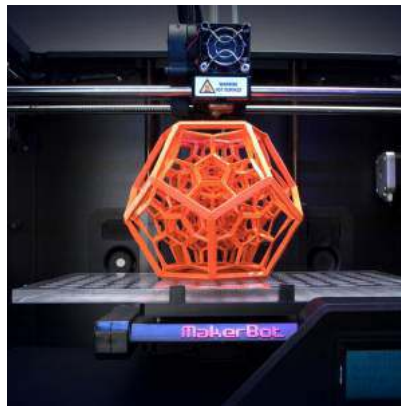
PRESENTATION

- Why presentation skills are necessary?
- The good, the bad and the ugly
- Articulation, clear and concise methods
- Words and Images
- Confidence and working together in a team



3D PRINTING

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



ROBOTICS

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



RURAL TECHNOLOGIES

Team Challenges

AGRICULTURAL TECHNOLOGIES

- Greenhouse farming
- Mobile apps
- Feeding Systems
- Farm Management

SOLAR TECHNOLOGIES

Electricity - Liter of Light

- Provide ecologically sustainable and cost-free lighting for simple dwellings with thin roofs

ENERGY TECHNOLOGIES

Eco-cooler

- Eco-Coolers were installed in the tin huts based on the wind direction and airflow pressure to decrease the temperature by 5° Celsius practically



WATER SOLUTIONS

Happy Tap

- The Happy Tap is a home hand-washing station that costs very little and looks stylish and manufactured

Manual Pumps

- Rope pumps and bicycle-powered rope pumps

Rain water Harvesting



ENGINEERING CHALLENGE

Bridge Building Challenge

- Participants would build in teams the strongest bridge using paper and tape
- The load will be tested and the strongest wins the challenge.

Extend-a-stick Challenge

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

PRESENTATIONS

- Participants to work on their presentations
- Topic - "New idea/invention for Villages, using recycled materials"
 - Easy to make, DIY style, Easy to learn, Easy to maintain and long-lasting
 - How science can improve the lives of underprivileged and social entrepreneurship

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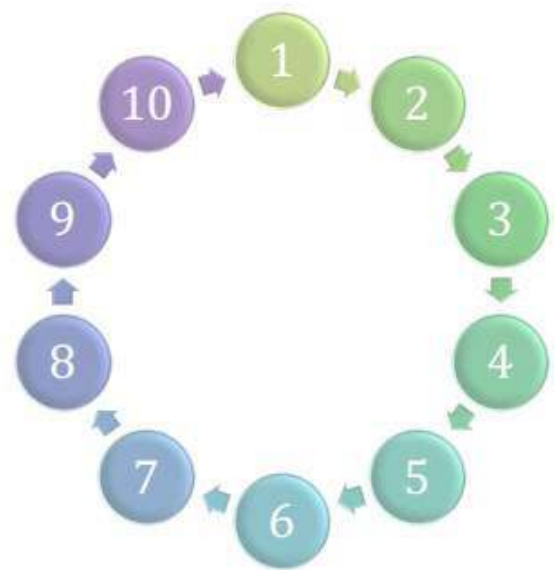


AMAZING RACE @ STICK 2016 PROGRAM

9:30 9:45	Briefing Amazing Race Part 1 5 stations x 15 minutes each (15 min per group per station)
11:00	Special Movie (I) <i>Tashmin : Decision He Made</i> Debrief of learning from the movie and morning session
11:45	Special Movie (II) <i>Asam Pedas Ikan Salmon</i>
12:05	Lunch break
13:00	Amazing Race Part II <i>Complete remaining 5 stations</i>
14:15	Group Discussion <i>Identify one particular challenge or problem area (e.g. lack of sanitation in rural areas) from your own country and share how you plan to use what you have learnt today from Singapore's journey to research more and apply</i>
15:00	Presentation time! <i>Each group to take 5 minutes to share your learnings and local application</i>
16:00	Guided Tour of SDC Main Exhibits SAFTI Bus Tour Final Conclusion and Debrief Group Photo End of Amazing Race @ STICK 2016

Team building activities

STICK 2016 Amazing Race @ Discovery Centre



No.	Station Number & Names Station Name	Starting Group
1	Build-it!	A(mazon)
2	Portals	B(en & Jerry's)
3	Enterprise Quest	C(isco)
4	Crisis Timescope	D(isney)
5	Battlefield Command	E(bay)
6	On-Location Reporter	F(acebook)
7	Our Common Spaces (Group Neoprint)	G(oogle)
8	WoW! Wall of Wonders	H(uawei)
9	Dream Lab	I(nstagram)
10	Digital Dance	J(aguar)

Amazing Race Group Rotation Schedule (Start Times at Each Station)

Group	9.45	10.00	10.15	10.30	10.45	1.00	1.15	1.30	1.45	2.00
A	1	2	3	4	5	6	7	8	9	10
B	2	3	4	5	6	7	8	9	10	1
C	3	4	5	6	7	8	9	10	1	2
D	4	5	6	7	8	9	10	1	2	3
E	5	6	7	8	9	10	1	2	3	4
F	6	7	8	9	10	1	2	3	4	5
G	7	8	9	10	1	2	3	4	5	6
H	8	9	10	1	2	3	4	5	6	7
I	9	10	1	2	3	4	5	6	7	8
J	10	1	2	3	4	5	6	7	8	9

01 PROGRAM

Day 1

13 July 2016

1630 Arrival to Singapore
Transfer to respective accommodation
Check-in accommodation

1700 - 2000 Ice breaking game and Dinner
(New Charis Mission)

2000 Return to accommodation

02 PROGRAM

Day 2

14 July 2016

0700-0800 Breakfast

0800 Transfer to Singapore Discovery Centre

0900 - 1700 Amazing Race STICK 2016 @ Singapore Discovery Centre
(Lunch break 1200 - 1300)

1700 - 1800 Dinner @ SDC

1800 Return to Accommodation

03 PROGRAM

Day 3

15 July 2016

0700-0800	Breakfast at accommodation
0800-0900	Transfer to Nanyang Technological University (NTU)
0900-1200	Science Discovery Workshop @ NTU

1200-1300	Lunch break
1300-1800	Workshop on Rural Technologies @ NTU (Agriculture, Energy, Solar, Water)
1800	Depart NTU for dinner and night city tour
2100	Return to Accommodation

04 PROGRAM

Day 4

16 July 2016

0700-1800	Breakfast at accommodation
0800	Transfer to Nanyang Technological University (NTU)
0900-1200	Engineering Challenge (Building Bridge or Marshmallow Tower Extend-a-Stick)

1200-1300	Lunch at NTU
1300	Work on presentation/ Presentation
1600	Presentation and Ceremony
1800	Dinner @ NTU
1900	Farewell party (cultural performance)
2100	Depart for accommodation 17 July 2016 17 July 2016

05 PROGRAM

Day 5

17 July 2016

0800-0900	Breakfast Check out from accommodation
	Departure

CONFERENCE VENUES



SINGAPORE DISCOVERY CENTRE

Address:

510 Upper Jurong Rd, Singapore 638365

NANYANG EXECUTIVE CENTRE, NANYANG TECHNOLOGICAL UNIVERSITY (NTU)

Address:

50 Nanyang Ave, Singapore 639798
MRT: Boon Lay MRT
Bus service: No 179, 199

Nanyang Technological University, Singapore



- Ranked 13 th globally; ranked 1 st amongst the world’s best young universities.
- Hailing from 80 countries with 4,300-strong faculty and research staff.
- Providing high-quality global education to over 33,000 undergraduat and postgraduate students. Having colleges of Engineering, Business, Science, Humanities, Arts, & Social Sciences, and an Interdisciplinary Graduate School. It also has a medical school, Lee Kong Chian School of Medicine, set up jointly with Imperial College London.
- Home to world-class autonomous entities such as the National Institute of Education, S Rajaratnam School of International Studies, Earth Observatory of Singapore, and Singapore Centre on Environmental Life Sciences Engineering.

Singapore Discovery Centre



Singapore Discovery Centre (SDC) is a state-of-the-art 'edutainment' attraction that celebrates the Singapore Experience. SDC strives to share the Singapore Story and inspire a desire to contribute to Singapore’s future. It is a place for everyone, with its wide range of fun-filled multi-media interactive presentations and games. Visitors can experience the Singapore Story with insights into the nation’s challenges, dreams and aspirations, and ultimately what makes Singapore tick – the Singaporean heartbeat.



ST. ANGELA'S SCHOOL, BRUNEI

Danielle Alicia Chelenga Anak Joseph
 Ampuan Aqillah Faraaiyah Ampuan Hj Mohamad
 Muhammad Aqil Nuruddin Bin Janeil
 Nur Insyirah Afiqah Binti Janeil
 Wong Kah Hong
 Wong Kah Hao
 Wong Kah Heng
 Ling Tze Hui
 Muhammad Danish Bin Janeil
 Muhammad Shufri Khairee Izzani Bin Hj Md Jeffri
 Siti Nurul Ameerah Nadira
 Khairunnisa Bte Hj Md Jeffri
 Wong Lian Sheng
 Yong Wun Ning

ST. ANDREW'S SCHOOL, BRUNEI

Ma. Jan Alexa Roxas Marcelo
 Shim Sing Yeh
 Saw Xin Rou
 Liyau Yi Xuan
 Woon Yen Xuan, Celeste
 Lee Pei En
 Ong Sze Yee
 Chong Jia Wen
 Tu Ping Xin, Joeresa
 Wong Jing Ling
 Liaw Wei Chien, Alandra
 Lam Kah Hi
 Huang Lok Xuen
 Tee Shi Ching, Sharon
 Abdul Raziq Bin Abd Jalal
 Bianca Paula Navarro Marvida
 Kuan Jia Ying
 Lim Sye Wen
 Chong Su Xin, Phylidia
 Abd Jalal Siti Aisyah
 Suherman Muhd Aiman Aidee
 Tang Yih Chuan
 Lim Pann Rong
 Lasco Immanuel John Santos
 Huang Fa Kai, Jordan
 Chua Wei Siang, Kelvin
 Onn Wei Rong
 Ng Tze Hou
 Ng Jia Jie
 Wong Sii Yuan
 Lau Hui Teck
 Yee Yeung
 Shane Riosa Anak Jackson
 Farah Sabrina Binti Dr. Mohamad Saiful



GLN

Nguyen Minh Huong
 Vu Thao Phuong
 Tran Dang Tung
 Bui Thi Hien Anh
 Dang Xuan Quynh Huong
 Pham Lan Nhi
 Luu Gia Bach

TASS Co. Ltd

Bui Tung Linh
 Do Truong Giang
 Nguyen Duc Anh
 Nguyen Duc Viet
 Tran Duc Anh Khanh
 Vo Hoang Tan
 Phung Phu Dat
 Phung Cam Ha
 Pham Dam Quan
 Duong Hoang Son
 Nguyen Pham Thanh Chung
 Le Minh Son
 Nguyen Tuan Nguyen An



SINGAPORE SCHOOL, PANTAI INDAH KAPUK

Hans Melvern Kasim
 Jason Gumarjadi Suhardi
 Louis Martin
 Muhammad Khalik Humar
 Hubert Jo Sumarno
 Ricky Pastika

AKADEMI PARIWISATA MEDAN

Angelia Septiani Sinaga
 Ritawati Br Sembiring



Lincoln University

PROMIT KUMAR PODDERZ



Nilai University

SANDRA OBENG NTOGO OBONO



University Utara Malaysia

MUSIBAU HAMMED OLUWASEYI



Nilai University

IRENE MISSANGA MUJA



POUR UN SOURIRE D'ENFANT

PROM HAK
 NOUN VOEURN

Science Technology Innovation and Creativity “K”onference

Organizer



Official Travel Partner



Held In



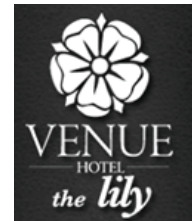
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Youth Ambassadors Upcoming Conferences in 2016 - 2017



SCIENCE TECHNOLOGY
INNOVATION AND
CREATIVITY “K”ONFERENCE
(ASLC)

ASLC 2016 27-31 July 2016
ASLC 2017 July 2017 (TBA)



YOUTH
ENVIROMENT SUMMIT
(YES)

YES 2017 15-19 Feb 2017



ASIA MATH AND
ENGINEERING CHALLENGE
(AMEC)

AMEC 2017 June 2017 (TBA)

FOR MORE INFORMATION AND DETAILED ITINERARY...

Email: enquiry@sgyouthambassadors.org

Website: <http://sgyouthambassadors.org/>

Facebook: <http://www.facebook.com/SGYouthAmbassadors>