

Global Young Scientists Summit@one-north (GYSS@one-north) Singapore Challenge 2015

The Singapore Challenge is a unique feature of the GYSS@one-north. Participants of the GYSS@one-north are encouraged to submit white papers to address an identified national challenge. Selected research proposals will be presented to a panel comprising scientific leaders and captains of industry during the Summit. A cash prize and medallion are awarded to the best concept and technological solutions proposed to meet the challenge.

This year, the partner agency for the GYSS@one-north SG Challenge 2015 is the Ministry of Health (MOH).

Topic: **Ageing-in-Place**

Challenge Statement

How do we put in place new solutions to support a growing number of seniors to age in place in their own homes and in the communities they are familiar with for as long as possible, with dignity and grace, and to allow them to enjoy a good quality of life and to remain engaged members of their communities, even as diseases and frailty set in.

Description

The research whitepapers should be multi-disciplinary in nature, and cover a wide range of areas such as new models of health plus social care delivery that leverage latest scientific research and information technology/tele-health, new forms of enabled living, housing systems (i.e. architecture integrated with care services enabled by technology), or new forms of mobility systems that allow frail seniors to live independently in their own communities for as long as possible.

Phase I.

Participants accepted to participate in GYSS@one-north 2015 are encouraged to:

- Conceptualise a technical response to the challenge statement and description;
- Develop and submit a whitepaper;
- Work on a prototype or demonstration, if time permits.

Closing Date

The closing date for submissions is Friday, **10 October 2014, 1700hrs (Singapore time)**. Participants can visit the website (www.gyss-one-north.sg) for more information on SG Challenge 2015.

Submission Requirements

The white paper and all accompanying materials must be submitted in English. The whitepaper, including the following information, should not exceed 2,000 words (Arial, font size 12, 1.5 line spacing). The word count does not include annexes.

- i. **Current Situation.** Describe briefly the current situation, the gaps and problems faced.
- ii.

The GYSS@one-north secretariat will inform participants of their shortlisted entries via email for Phase II of the SG Challenge, on **Friday, 24 October 2014**.

Phase II.

Shortlisted participants will present their ideas to a panel of judges and invited guests on Friday afternoon, 23 January 2015, prior to the GYSS@one-north 2015 Closing Ceremony. Each presentation should be done by a single individual and be no longer than 8 *minutes*. There will be no Q&A. Presentations can be done through powerpoint slides, videos, technology demonstrations, and so on.

In preparation for the presentations, shortlisted participants are requested to submit a 5-minute video of their presentation, a copy of their presentation (either in pdf or powerpoint) and the final proposal, to the GYSS@one-north secretariat. Please note that only the video link for the presentation should be sent to the secretariat. The final proposal can be a detailed version of the white paper but should not exceed 3,000 words (Arial, font size 12, 1.5 line spacing). These submissions should reach the GYSS@one-north secretariat no later than **Friday, 9 January 2015, 1700 hrs (Singapore time)**. Failure to do so will result in *disqualification* from the SG Challenge 2015.

The Final Judging Panel comprise the following:

- Prof Edward Holmes, Advisor (National Research Foundation Office, Singapore) and Chair of the Final Judging Panel
- Prof Lim Hock, Director (Research Governance and Enablement), Office of the Deputy President (Research & Technology), NUS
- Ms Teoh Zsin Woon, Deputy Secretary (Development), MOH
- Sir Tim Hunt, Nobel Prize in Physiology or Medicine (2001) (tbc)
- Prof Michael Grätzel, Millennium Technology Prize winner (2010)
- Prof Aaron Ciechanover, Nobel Prize in Chemistry (2004)
- Prof. Ivy Ng, Group CEO, Singapore Health Services (SingHealth)

A single cash prize of USD100,000¹ and the SG Challenge Medallion will be awarded to the most compelling idea in recognition of the novelty and potential impact of the proposal. The prize recipient is encouraged to use the prize money to further develop the proposed idea, in partnership with the appropriate Singapore public agency or government-funded research institute/laboratory.

GYSS@one-north will retain all submitted information for the SG Challenge and reserves the right to use the submitted information for all GYSS@one-north-related publicity collaterals and activities (e.g. exhibitions, publicity etc.). All submissions may be shared with Singapore Government agencies only for their consideration to explore collaboration with the proposer.

The GYSS@one-north Organising Committee reserves the final right to decide on the prize winner.