

"NUS for Climate Action 2018" Talks and Contests

22 October 2018 || TO NUS Community

Sent on behalf of [NUS Sustainability Steering Committee](#)

Thank you for supporting our "NUS for Climate Action 2018" Environmental Roadshow on 17 & 18 October 2018.

If you missed the Roadshow, we still have talks and contests lined up for you.

Register [here](#) for upcoming talks.

Click [here](#) to enter our contests.

Limited vacancies for talks so please register early to avoid disappointment.

NUS for Climate Action

Making a Difference  2018

SELECTED TALKS

1. DISTRICT COOLING SYSTEM

SPEAKER: Dr Md Raisul Islam, Department of Mechanical Engineering, National University of Singapore

SYNOPSIS:

The Singapore Government has set a target of reducing its energy intensity by 35% from its 2005 levels by 2030 and pledged to trim its carbon emissions by 16% from 2020 business-as-usual levels. The Government has also introduced mandatory energy management requirements under the Energy Conservation Act from April 2014 for large energy users. Air-conditioning systems consume about 60% of the total energy consumption of the central air-conditioning systems. Energy efficient design and smart control strategies of the central air-conditioning systems can significantly contribute to energy and cost savings.



The following topics will be discussed during NUS for Climate Action 2018:

- 1) Working principle of central air-conditioning chiller plants.
- 2) Measurement of cooling load and chiller plant efficiency.
- 3) Interaction of pump and system characteristic curves.
- 4) Energy saving opportunities for chillers, pumps and cooling towers.
- 5) Energy saving opportunities for air handling units.
- 6) Consolidation of chiller plants and green strategies for district cooling systems.

WHEN: 23 Oct (Wed), 12-1pm at Ngee Ann Kongsi Auditorium, Education Resource Centre

2. GREENING SINGAPORE WITH NATIVE PLANTS

SPEAKER: Assoc. Prof. Hugh T.W. Tan, Department of Biological Sciences, National University of Singapore

SYNOPSIS:

The native vascular plant flora of the Republic of Singapore has suffered the extinction of 594 out of a total 2277 species. It is vital to restore and conserve the native plants to preserve the biodiversity and natural ecosystem.



Assoc. Prof. Hugh T.W. Tan will talk about the following topics:

- What are native plants?
- Why conserve native plants?
- Why grow native plants?
- What are your gift plants?
- What native plants can be grown in urban areas?
- How can I grow native plants in urban areas?
- Where can I find out more about cultivating native plants?

WHEN: 24 Oct (Wed), 1-2pm at Ngee Ann Kongsi Auditorium, Education Resource Centre

3. SDE4, A NET ZERO-ENERGY BUILDING IN THE TROPICS

SPEAKER: Bertrand Lasternas, Associate Director, Energy Manager for School of Design & Environment

SYNOPSIS:

The new Net Zero-Energy Building (SDE4 NZEB), scheduled to open in January 2019, is the first purpose-built net zero-energy building commissioned by a Singapore tertiary institution. A net zero-energy building consumes only as much energy as it produces within its site boundary. Consumption and production figures are balanced over the course of one year, allowing for periods when consumption is higher than production and vice versa. The building is connected to the NUS campus grid with which it exchanges electrical power when there is a surplus or deficit. The talk will describe the journey taken by NUS to achieve a net zero-energy building in a tropical climate.



WHEN: 1 Nov (Thurs), 12.30pm-1.30pm at University Hall Auditorium

CONTESTS

SUBMIT BY 31 DEC 2018

NOTICE ANY WASTAGE IN CAMPUS?

HELP US FIGHT CLIMATE CHANGE BY SHARING THEM WITH US
AND STAND TO WIN UP TO **\$1000** IN CASH!

OPEN TO STUDENTS & STAFF



(climate) **ACTION!**

Student Video Competition

THEME : ACT NOW, ACT TOG

Submit a 3-min video and stand to win \$1,500!

