

## Nuclear Technology Public Seminar

# Recent developments in reactor thermal- hydraulics and safety

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**Date:** 14 December 2016 (Wednesday)

**Time:** 7:00pm– 8:15 pm

**Venue:** Mr & Mrs David T F Chow Lecture Theatre (LT-4), 4<sup>th</sup> Floor, Academic 1, City University of Hong Kong

**Registration:** On-line free registration is via,

<http://www.hkarms.org/Registration/EventRegister.php?Event=76>

on a first-come-first-served basis.

For enquiries, please contact Dr Louis Liu, [info@hkns.hk](mailto:info@hkns.hk)

### Abstract:

The research and development in reactor thermal-hydraulics and safety is crucial to ensure safe and economic operation of existing plants and develop next generation nuclear systems. In this seminar, the issues and R&D requirements facing the existing nuclear power reactors will be discussed, and the current methods on the reactor modeling and simulations used in the industry will be introduced together with the future trend. The design features of Gen-III reactors, i.e. AP1000 and ESBWR, will be introduced. Then, the advanced fluids applications (supercritical fluids and nanofluids) in developing advanced nuclear systems such as Gen-IV supercritical water cooled reactors (SCWR) will be discussed. Finally, the researches on severe accidents and radioactive materials dispersions will be talked.

**Attendance/CPD Certificate will be provided**

### Supporting Organisations:



## Campus Map

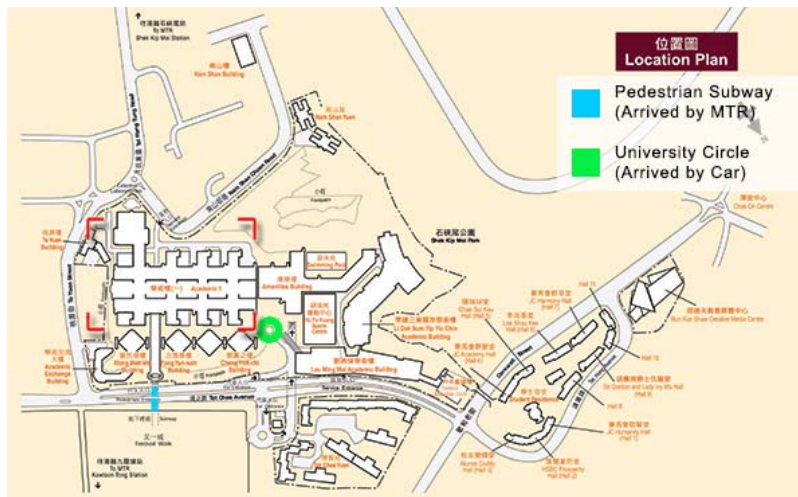

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## Venue



### [Mr & Mrs David T F Chow Lecture Theatre \(LT-4\)](#)

Location: Floor 4, Academic 1

[Print](#)


## How to get to Mr & Mrs David T F Chow Lecture Theatre -

[Print](#)

| Arrived at Pedestrian Subway   | Arrived at University Circle  |
|--|---|
| <ol style="list-style-type: none"> <li>1. When you get off the MTR, look for Festival Walk exit.</li> <li>2. In Festival Walk, on Level LG1, there is a Pedestrian Subway which will lead you to CityU campus.</li> <li>3. Go straight after walking through the Pedestrian Subway, walk through the red doors to enter the Academic 1.</li> <li>4. Go straight ahead past the Bookshop and you will see escalators on your right.</li> <li>5. Go up one level to the University Concourse.</li> <li>6. You will see all the lecture theatres on both sides of the Concourse.</li> </ol> | <ol style="list-style-type: none"> <li>1. When you drop off at the University Circle, go along the Covered Walk Way which will lead you to the Academic 1.</li> <li>2. Walk through the red doors, you will see all the lecture theatres on both sides of the Concourse.</li> </ol> |

