

Organizers:



**Technical Seminar on**  
**“Building a Net Zero Lab in the United Arab Emirates: Mission Impossible?”**

Date : 28 September 2017 (Thursday)  
Time : 7:00 – 8:30pm (Registration will start at 6:30pm)  
Venue : FJ304, The Hong Kong Polytechnic University, Hung Hom, Kowloon

Background:

Laboratories with their intense use of outside air and safety concerns are one of the most challenging building types to achieve net zero. In fact, some might say it can't be done at least for many climates. However, a path does exist to achieve net zero energy or at least near net zero using multiple technologies such as VAV lab and exhaust fan control, demand based control of ACH's, chilled beams or hydronic cooling, and heat recovery. This seminar will explore this topic from a holistic viewpoint and provide a detailed review of an actual case study of a large near net zero lab project in Abu Dhabi, UAE.

Honorable Speaker:



**Gordon P. Sharp**  
*Distinguished Lecturer of ASHRAE*

Mr. Sharp is the chairman of Aircuity, Inc. and has over 25 years of wide-ranging entrepreneurial experience and more than 25 U.S. patents in the fields of energy efficiency and laboratory controls. As founder, former president and CEO of Phoenix Controls, he led the development of this world leader in laboratory airflow controls that was acquired by Honeywell in 1998. The technologies invented by Mr. Sharp at Phoenix Controls are today saving over \$1.5 billion annually in energy use. In 2000, Mr. Sharp founded Aircuity, which was spun out of Honeywell and is a smart airside energy efficiency company.

Mr. Sharp is a graduate of MIT with bachelors and masters degrees in electrical engineering. He is Executive Vice President and a member of the board of directors of I2SL (International Institute for Sustainable Laboratories), the nonprofit foundation that operates the Labs21 conference. He is also a member of two important standards on ventilation: the ANSI/AIHA Standard Z9.5 Committee on Laboratory Ventilation and the ASHRAE SSPC 170 Committee on Ventilation of Health Care Facilities. He is also a voting member of ASHRAE technical committee TC9.10: Laboratory Systems and TC9.11: Clean Spaces/Cleanrooms.

Mr. Sharp is a frequent speaker at national and international conferences on the topics of energy efficiency in buildings and indoor environmental quality and has testified before the US Congress on the topics of climate change and energy efficiency.

Organizers:



Language: English

Fee: Free of charge

Remark: 1.5-hour CPD certificate will be provided.

Registration & Enquiry:

Number of participants is limited and prior registration is required. For registration, please complete Registration Form in the following link: <https://docs.google.com/forms/d/e/1FAIpQLS6xk6vIjLldTnlzg2wA-SMmAkOhhwNhg8NQDPZVxs4G4ViwuQ/viewform>. Only the applications from the members of Organizer will be accepted. The deadline of application is on 22 September 2017. Successful members will be notified by e-mail on or before 25 September 2017, which has to be presented at the registry of the venue entrance for verification. If the applicants have not received the confirmation e-mail on or before 25 September 2017, their applications will be regarded as not successful.

If typhoon signal no. 8 or black rainstorm signal is in force and still hoisted after 5:00 pm of 25 September 2017, the talk would be cancelled without further arrangement or notification.

For enquiry, please contact Ms. Cindy Pun at email to [ashraehk@gmail.com](mailto:ashraehk@gmail.com).