



Demand Ventilation Controls in Laboratory

Course Summary

The main aims of this workshop are to provide an understanding of:

- Laboratory Airflow design criteria
- Fumehood requirement and VAV system
- Demand Ventilation Control
- Critical Airflow Management

SCEM PDU points to be awarded

Learning Outcomes

- Understanding the design criteria for laboratory
- Integrate DCV into energy management system
- Understand of demand ventilation control
- Set up (or develop) energy policy, energy planning, procedure for evaluating performance of energy systems and energy performance review, documentation and communication processes
- Integrate energy management system into business practice
- Understanding critical environment safety before implementation of energy saving management and technology
- Evaluate financial attractiveness of energy retrofit projects
- Understand the various energy savings performance models

23 October 2018

9am - 5pm

Singapore Sustainability Academy

180 Raffles Place Level 6 Sky Park, #06-10

City Square Mall Singapore 208539

Demand Ventilation Controls in Laboratory

Program Outline

Session 1: Laboratory and Fumehood

- Types of laboratory and fumehoods
- Laboratory HVAC components
- Airflow control

Session 2: Demand ventilation control in critical environment

Introduction to low energy lab design

- Importance and impact of lab ventilation on first costs & energy usage
- Typical lab energy costs & metrics
- A holistic summary of the technologies and strategies used in low energy lab design

Session 3: Lab tools Exercise

- Lab Analysis ROI Tools
- Summary and review of major conclusions

Rates

Normal	Group
SEAS Member: \$380.00	3 participants and above \$400.00

Non-Member:
\$450.00

Fees are inclusive of GST

SEAS may cancel or reschedule a course at its discretion and will use reasonable efforts to notify delegates at least 5 working days in advance. In these circumstances, delegates will be offered an alternative date, an alternative location or a full refund of course fees paid. SEAS is not responsible for airline or accommodation costs incurred by delegate in the event a course is cancelled or re-scheduled.

Substitutions (name changes) are accepted at any time prior to the event without penalty, subject to the replacement delegate satisfying any necessary course pre-requisites.

Mr Gordon Sharp



Speaker's Profile

Mr. Gordon Sharp is the Chairman of Aircuity and has over 25 years of experience and over 25 patents in energy efficiency, indoor environmental quality and laboratory controls.

As the founder and former CEO of Phoenix Controls, he led his world leader n laboratory airflow controls that was acquired by Honeywell in 1998. In 2000, Gordon founded Aircuity out of Honeywell and is a smart airside energy efficiency company.

Gordon is an MIT graduate, an ASHRAE Distinguished Lecturer, the Executive Vice president and a member of the Board of Directors of I2SL, the International Institute of Sustainable Laboratories. He is also a member of ASHRAE Standard 170 on Healthcare Ventilation and the ANSI/AIHA/ASSE Standard Z9.5 on Laboratory Ventilation

Call us at +65 6338 8578 to enquire

Email: training@seas.org.sg

Registration Form

Yes! I would like to register for this programme

I am unable to attend but please put me on your mailing list

Participant's Details

1	Name (Dr/Mr/Ms/Mrs) Hp NRIC	Designation Email
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Participant's Details

2	Name (Dr/Mr/Ms/Mrs) Hp NRIC	Designation Email
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Billing Information

Company Name	Contact Name
Company Address	Email
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