



ASHRAE Hong Kong Chapter

美國供暖製冷及空調工程師學會 香港分會

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Technical Workshop

Application of Ultraviolet Germicidal Irradiation (UVGI) to Control Infectious Agents from Bioterrorism

by Mr. Forrest B. Fencl

ASHRAE Distinguished Lecturer – Ultraviolet Germicidal Irradiation

Date & Time: 14 May 2005 (Sat), 2:00 pm to 4:30 pm

Venue: Lecture Theatre B, Chow Yei Ching Building, The University of Hong Kong

Abstract: This workshop explains the principles of Ultraviolet Germicidal Irradiation (UVGI) and provides current state of the art combining UVGI and air filtration in air-conditioning systems for the control of infectious agents such as anthrax and smallpox. Using third party software, the computer driven model represents a scientific prediction of the combined effectiveness of these two engineering strategies. With confidence the user can realize how to provide a form of building outdoor intake immunization against biological agents targeted at high-risk structures. Some discussion takes place relative to the kill ratios of agents needed to preclude devastation.

Speaker: Forrest B. Fencl has been in the HVAC&R industry for over 35 years. He started his career in R&D and engineering in the air-cleaning segment. In 1995 he became President and CEO of Steril-Aire, a firm that specializes in the development and application of UVC energy to disinfect airstreams, surfaces and liquids related to HVAC&R equipment. As the first HVAC&R only UVC Company, he pioneered the modern application of UVC in HVAC&R equipment and wrote eleven patents on the subject along the way.



Mr. Fencl has conducted research, authored several papers and articles, and has written UVC excerpts for HVAC&R educational books and McGraw-Hill. Among other things in the air filtration community, he fathered the Two-Step Design Guide, an engineering tool for utilizing the best of ASHRAE Standard 62-1989. He was also privileged to provide the very first IAQ talks in the Asia Pacific in the late 1980's. He is a member of technical and professional groups and has served on technical committees in the HVAC industry. Through these efforts, the HVAC&R industry has begun to modify its standard of care for HVAC&R equipment. He is a member of ASHRAE and IES, and has been a spokesperson on UVC and IAQ for over 17 years.

Co-organiser: In collaboration with the Dept. of Mechanical Engineering, The University of Hong Kong.

Reservation: This seminar is open free of charge to ASHRAE members and other interested persons. Seats are allocated on a first-come-first-serve basis. To reserve a seat, please send your information to us through email (apply@ashrae.org.hk).

- Name of applicant(s) and company name
- Contact information (email, telephone, fax)
- ASHRAE Membership class and number (if any)

Enquiry: Please contact us at email "info@ashrae.org.hk" or by fax 2858 5415 (Attn.: Dr. Sam Hui)

CPD Certificate: Attendance certificate will be provided to participants.

The Hong Kong Chapter has no authority to act for or in the name of the Society.

Location map of the venue:

