



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 Seminar

UVC Technology for System Capacity, Maintenance, and IAQ

by Mr. Forrest B. Fencel

ASHRAE Distinguished Lecturer – Ultraviolet Germicidal Irradiation

- Date & Time:** 12 May 2005 (Thu), 7:15 pm to 8:25 pm
(right after the Annual General Meeting of ASHRAE Hong Kong Chapter)
- Venue:** Lecture Theater N001, The Hong Kong Polytechnic University, Hungghom, Kowloon
- Abstract:** This talk provides a historic review of the modern application of UVC equipment to HVAC systems. It starts with an overview of how poor IAQ led the way to UVC's introduction and then how performance changes relating to net cooling necessitated a psychometrics review of treated systems. In summary, the talk traces HVAC system evolution relative to design, operation, materials, maintenance and utilization and then a discussion on how these lead to capacity, maintenance and IAQ problems. A lot of ground is covered so examples are shown where possible for each of the main topic areas, increasing clarity.
- Speaker:** Forrest B. Fencel 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.
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- Mr. Fencel 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.
- Venue Support:** Department of Building Services Engineering, The Hong Kong Polytechnic University
- 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)
 - Company name
 - Contact info. (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.

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