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香港理工大學

DEPARTMENT OF  
BUILDING SERVICES ENGINEERING  
屋宇設備工程學系

## **Technical Seminar on** **“Basics of Cleanroom Design” and** **“Considerations for Clean Air, Filtration and Energy Usage in IAQ”**

Date : 18 May 2018 (Friday)

Time : 7:00 to 9:00 pm

Venue : HJ302, The Hong Kong Polytechnic University, Hung Hom, Kowloon

### **Background:**

#### **Topic 1:**

##### **Basics of Cleanroom Design**

Ensuring that a cleanroom meets its desired cleanliness objectives requires an understanding of the key elements of cleanroom designs. This seminar will present the essential concepts of air filters and their performance, good airflow management, and common room layout and designs. Since these are the key elements of good cleanroom designs, a basic knowledge of these will lead to good designs.

#### **Topic 2:**

##### **Considerations for Clean Air, Filtration and Energy Usage in IAQ**

Air filters are the main means to reach the desired air quality in indoor spaces. To meet this goal, one has a plethora of filter classes to choose from. Further, many filter systems offer multiple filter stages, usually arbitrarily defined according to current popular practice. This seminar presents a reasoned approach to selecting the lowest filter class and the best combination of filter stages that will provide the desired clean air and best filter life. This approach may also lead to lower energy usage.

### **Honorable Speaker:**

#### **R. Vijayakumar**

*ASHRAE Distinguished Lecturer*



Vijayakumar is the founder and head of AERFIL, a consulting company devoted to providing technical and business solutions and services for the filtration and contamination control industry as well as educational and training support for the industry. His current clients include major filtration companies in China, Brazil and India. With over 30 years' experience in leading filtration and particle test instrument companies to go with his PhD in particle technology, Vijayakumar is a globally recognized expert and mentor in contamination control and filtration sought after by clients worldwide. He is an advisor to NASA for air filtration systems for space habitat.

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In keeping with his philosophy that knowledge grows only by sharing, he teaches freely and often wherever someone wants to learn the subject. He has been on the faculty of the short course on air and gas filtration at the University of Minnesota since its inception and is a Distinguished Visiting Professor at the Chinese Academy of Building Research. He has taught courses in cleanroom designs for ASHRAE, and is a Distinguished Lecturer for them lecturing around the world on various aspects of filtration and cleanroom designs. He has served as the President of the IEST, the premiere contamination control organization in the US. Currently, he chairs standards development committees at the ISO and in the US writing standards for high efficiency filters used in cleanrooms, hospitals, and indoor environments.

#### Seminar Program:

6:45 – 7:00 Registration  
7:00 – 8:00 Topic 1: Basics of Cleanroom Design  
8:00 – 9:00 Topic 2: Considerations for Clean Air, Filtration and Energy Usage in IAQ

Language: English

Fee: Free of charge

Remark: 2 hours CPD certificate will be provided.

#### Registration & Enquiry:

Number of participants is limited and prior registration is required. For registration, please complete the Form in the following "[Online Registration Link](#)". Only the applications from the members of Organizers will be accepted. The deadline of application is on 13 May 2018. Successful members will be notified by e-mail on or before 15 May 2018, 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 15 May 2018, 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 18 May 2018, the talk would be cancelled without further arrangement or notification.

For enquiry, please contact Mr. Anson Lee at email to [thankyou807@yahoo.com.hk](mailto:thankyou807@yahoo.com.hk).