



## ASHRAE Hong Kong Chapter

P.O. Box 35612, King's Road Post Office, North Point, Hong Kong  
Email: [info@ashrae.org.hk](mailto:info@ashrae.org.hk) Web: <http://ashrae.org.hk>

地址：香港英皇道郵政局 郵政信箱 35612 號

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### ASHRAE Distinguished Lecturer Series Technical Seminar on Critical Commissioning for Effective Central Plant Operation Strategies

Date : 18 February 2019 (Monday)

Time : 2:15pm – 5:15pm (Registration will start at 1:45pm)

Venue : Room 202E, G/F Jockey Club Environmental Building, 77 Tat Chee Avenue, Kowloon Tong, Hong Kong

#### Background:

Commissioning for both new constructions and existing buildings play important roles for system optimization with a goal of energy savings and effective plant operation especially for those critical facilities. This technical seminar focuses on the explanation of the fundamentals of new construction (Cx) and existing building commissioning (EBCx) defined by ASHRAE Guidelines. In addition, the speaker will also share his experience on actual critical commissioning for energy saving achievement.

#### **Topic 1:**

### **Critical Facilities New Construction Commissioning and Existing Building Commissioning**

This presentation will explore the fundamentals of new construction (Cx) and existing building commissioning (EBCx) for critical facilities. The initial topic covered will be the introduction to commissioning as defined by ASHRAE Guidelines and Standards. This will be followed by a review of the challenges with bidding Cx and EBCx projects and real world guidance on how to bid and select commissioning firms for projects. The process for Cx will be broken down into a step by step flow with details and examples provided at each step. Case studies will be presented for Cx projects with best practices, lessons learned and some specific benefits produced by following the ASHRAE Commissioning Process. The process for EBCx will also be detailed and new case studies presented to demonstrate the need for maintaining a buildings edge over time with ASHRAEs suite of Commissioning Guidelines and Standards.

#### **Topic 2:**

### **Primary Heating/Cooling Plant Strategies & How to Maximize the Energy & Financial Savings** (GBCI Approved | 2 CE Hour | 0920010405; AIA Approved | 2 LU/HSW | JVALLORT02)

This workshop focuses on strategies to improve efficiency of central heating and cooling plants applicable to single building as well as multiple buildings in a campus setting. You will learn about various configurations of equipment arrangement, operating parameters, piping distribution systems, primary utilities and environmental regulations associated with primary heating and cooling plants.

The workshop further discusses low temperature chilled water systems application that can operate with high overall efficiency, use smaller distribution piping network, and save the end users significant fit out costs when compared to traditional temperature systems.

Supporting organizations:





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Also included in this workshop is critical commissioning (Cx) activity that focus on ensuring the proper operation is achieved either at time of turn over or through the life of the system. By focusing on large elements of your building like the central plant, the benefits of Cx can be huge! The big energy consumption for your building is from the central plant. The cost and level of effort for Cx is focused on the number of system pieces and number of sequences, therefore the best place to start is in the central plant; best bang for your buck. Cx can ensure that the central plant is capitalizing on all available economizer options, reset schedules and load following optimization.

Studies have shown that a new building without Cx may consume 20% more energy than designed and that an average existing building can save 30% after three years of operation. So quit throwing those operating dollars out through your central plant and bring them back into your budget.

### Speaker:

### Jim Vallort, Fellow ASHRAE

Jim Vallort has spent his career focusing on energy: ranging from measuring energy usage, optimizing the systems, integrating automation to control energy and the impact of commissioning on energy consumption.

Jim is a Senior Vice president with ESD headquartered in Chicago, IL, a consulting engineering firm. Jim also serves as an ASHRAE Society Vice President for the 2015-2016 Board of Directors. He currently serves as a member of Standard Project Committee 211P, Standard for Commercial Building Energy Audits, and Technical Committee (TC) 7.9, Building Commissioning. Jim previously served on the Board as a director-at-large in 2005-08 and as Region VI director and Regional Chair in 2001-04.



Jim has over 20 publications and numerous presentations under his belt on topics ranging from Energy Efficiency, Automation and Commissioning to Underfloor Air Distribution. He has been an invited speaker at multiple fortune 500 companies educating their staff on building automation, energy efficiency, existing building commissioning and new construction commissioning. He brings a unique perspective on the constructability and real world aspects of our industry having been a union pipefitter, spent years in the field commissioning projects, combined with the experience as a mechanical designer, building automation designer and energy modeler.

Jim's greatest joy at work is teaching and mentoring others on the mix of art and science that is required to solve today's challenges in the engineering community. Vallort is the recipient of the ASHRAE Exceptional Service Award, ASHRAE Distinguished Service Award and an Excellence in Engineering Award from the ASHRAE Illinois Chapter in 1998.

Jim Vallort plays a large role in organizing one of ASHRAE's largest, best-attended, and most profitable Conferences held in Chicago every three years. Vallort served as advisor to the most recent 2015 ASHRAE Winter Conference; co-chaired the Chicago meetings in 2012, 2006, 2003 and 1999; and served as chair of the ASHRAE Centennial Meeting in 1993; he organized the Technical Tours and was on the Entertainment Committee for the 2009 Chicago Winter Conference. His earlier service includes Technology Council, the Planning Committee, the Standards Advisory Committee and a presidential ad hoc Committee on Certification. He also served as chair of the CIBSE/ASHRAE 2000 Joint Conference Steering Committee, the Member Council ad hoc Committee on Young Engineers (YEA) and the Society Program Committee and vice chair of the CIBSE/ASHRAE 2003 Joint Conference Steering Committee. He was president of the Illinois Chapter in 1999-2000.

### Supporting organizations:





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Language: English

Fee: HK\$ 300 [Member of ASHRAE Hong Kong]  
HK\$ 350 [Member / Staff of Supporting Organizations]  
HK\$ 400 [Standard]

Remark: 3-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://goo.gl/forms/6mp1eB6Qdt5iTiVJ3>. The deadline of application is on 12 February 2019.

After online registration, please make a crossed cheque payable to "ASHRAE Hong Kong Chapter" and post to our mail box at "P.O. Box 35612, King's Road Post Office, North Point, Hong Kong". At the back of cheque, please kindly state "ASHRAE DL Series – Jim Vallort", Name of Participant, Name of Company / Organization and Contact Number.

Successful members will be notified by e-mail on or before 13 February 2019, 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 13 February 2019, their applications will be regarded as not successful.

If typhoon signal no. 8 or black rainstorm signal is in force and still hoisted after 1:00 pm on that date, the workshop would be cancelled without further notification.

For enquiry, please contact Mr. Peter Lam at email to [ashraehk@gmail.com](mailto:ashraehk@gmail.com).

Application Q-Code:-



Supporting organizations:

