

ASHRAE Distinguished Lecturer Program

Optimizing Building Performance: Retro-Commissioning and Big Data

Date

19 June 2026 (Friday)

Time

8.00am to 12.00noon

Venue

The Hive, Level 9, Block G
Swinburne University of Technology
Sarawak Campus

Registration (*incl. 8% SST*)

Member RM100.00

Non-Member RM150.00

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or

Scan the QR Code



Speaker Information

Wade H. Conlan

*P.E., BCxP, CxA, LEED AP
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Optimizing Building Performance: Retro-Commissioning and Big Data

Time	Tentative Program
0800-0825	Registration
0825-0830	Welcoming and Introduction
0830-0930	Session I: Monitoring Based Commissioning and Fault Detection Diagnostics: Using Big Data and Engineering to Improve Facility Performance Buildings are using way more data points for their operation, beyond the HVAC systems BAS, to be able to measure and verify that they are operating within energy and comfort parameters. The use of Monitoring Based Cx (MBCx) or Fault Detection Diagnostics (FDD) for ongoing commissioning can help keep the systems in line for energy use as well as maintaining a high level of IEQ. These processes can also be used for improving the existing buildings in an owner's portfolio. Learn how to use MBCx and FDD, in your designs, construction, commissioning, and retro-commissioning of the built environment.
0930-1030	Session II: Finding a Needle in a Haystack:: Improve Energy Performance while Maintaining IEQ through Retro-Commissioning A lot of existing building stock needs to have its energy, and thereby operational carbon, improved if we are to meet the challenges for net-zero energy or carbon-neutrality in the next few decades. The improvement of the existing building stock, which is often looked at as energy hogs, can be greatly improved through the retro-commissioning process. This session covers the stages of finding the needle versus actively making improvements for systems. Actual projects for laboratories, hospitality and gaming, and university facilities will be used to demonstrate how to use retro-commissioning to improve your energy performance.
1030-1045	Break
1045-1145	Session III: Energy and Carbon Transition Plans: Using Audits and Retro-Commissioning to Create and Achieve your Goals This session is meant to discuss the process of creating an energy and/or carbon transition plan for the building systems in your portfolio of facilities. There are multiple steps in the process to develop these plans, including equipment condition assessments, energy/carbon audits, retro-commissioning and more. This process does need to include the building ownership and operators to establish goals and developing the actual planned improvement measure implementation schedule. The intent of this plan is to be proactive in how your facilities will achieve your potential net zero energy or carbon neutrality pledges.
1145-1200	Combined Discussion and Q&A Session

Speaker Information

Wade H. Conlan, P.E., BCxP, CxA, has over 29 years of commissioning and design engineering experience and has completed projects in a variety of building use categories. Wade's projects have included laboratories, central utility plants, hospitality, themed entertainment, pharmaceutical, gaming, mission critical, and healthcare facilities. Having joined ASHRAE as a student at Penn State, and receiving his Bachelor of Architectural Engineering in 1995, Wade is an active participant in many levels of ASHRAE, including being a past Chapter President, Regional Refrigeration Chair, and many roles at society. He is a Vice President for 2023-2025 (two-year term) and was formerly a Director-at-Large on the Board of Directors. Additionally, Wade has chaired the Environmental Health Committee, lead the ASHRAE Epidemic Task Force's Building Readiness Team, chaired SPC 110 – Method of Test for Fume Hood Performance, chaired TC 9.10 Laboratories, member of SSPC 300 – Building Commissioning, voting member of GPC 1.1 and past-chair of GPC 1.6P – Commissioning for Data Centers. Wade has been published in many technical documents, including the ASHRAE Journal. He also has spoken at, and chaired, numerous ASHRAE Conferences on topics of energy, indoor air quality, and standards. Wade currently serves as Hanson's Commissioning & Energy Discipline Manager whose team does work around the world, and has led retro-commissioning on more than 70 million square feet of buildings around the world. He has also led many commissioning, energy audits, and condition assessments.

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