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**LEED v4 Energy and Atmosphere Credits
Commissioning in Building Operations and Maintenance : Introduction to MBCx**

Date : 8 June 2018 (Friday)
Time : 2:00 PM – 5:45 PM Seminar (Registration will start at 1:15 PM)
Venue : MGM Macau (Level 1 – Ball Room No.3)

Seminar Program :

1:15PM – 1:50PM	Registration
1:50PM – 2:00PM	Welcome Address and Opening Speech <i>Mr. Syed Mubarak, President ASHRAE MACAO Chapter</i>
2:00PM – 3:30PM	LEED v4 Energy and Atmosphere Credits <i>Mr. Daniel H. Nall, P.E., FASHRAE, FAIA, BEMP, HBDP, Vice President, Syska Hennessy Group.</i>
3:30PM – 3:50PM	Tea Break
3:50PM – 5:20PM	Commissioning in Building Operations and Maintenance: Introduction to MBCx <i>Mr. Eric Ao, CEM, CMVP, and CAP, Senior Energy Consultant, Energenz Ltd.</i>
5:20PM – 5:35PM	Question and Answers <i>Moderated By: Mr. Syed Mubarak, President ASHRAE MACAO Chapter</i>
5:35PM – 5:45PM	Closing Address and Awarding <i>Mr. Edmund Lei, President – Elect ASHRAE MACAO Chapter</i>

Language:	English
Fee :	Free of Charge
Seat :	70 ; First Come, First Served
Remark:	3-Hour CPD certificate will be provided and distributed after the Technical Seminar. (Remarks: CPD Application to Macau Government CAEU 建築、工程及城市規劃專業委員會 is in process.)

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Registration & Enquiry

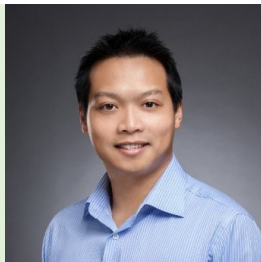
Number of participants is limited and prior registration is required. Fill in registration form attached to info@ashrae-macao.com. The deadline of registration is on **4 June 2018 (Monday)**, failure to meet deadline would have attendees register on site but subject to limited seats and late certificate issuance. Successful members for the Technical Seminar will be notified by e-mail on or before June 6, 2018. For enquiry, please contact Mr. Dickson Yeung at info@ashrae-macao.com (852) 6399 5643 / (853) 6288 5380.

Distinguished Speakers

Mr. Daniel H. Nall is a Vice President of Syska Hennessy Group in New York. A graduate of Princeton University and Cornell University, he is a Registered Architect, a Professional Engineer, an ASHRAE Life Fellow, a Fellow of the AIA, a LEED Fellow, a certified Building Energy Modeling Professional, a High-Performance Building Design Professional and a Certified Passive House Consultant. ASHRAE activities include the ASHRAE Advanced Energy Design Guide Steering Committee, the Project Committee for the Advanced Energy Design Guide for Zero Energy K12 Schools, the Building Energy Quotient Ad-Hoc and Oversight Committees, and TC 4.7. He helped author the 30% Advanced Energy Design Guides (AEDG's)'s for Small Office Buildings, Small Retail Buildings, Roadside Lodging and Small Warehouses, and the 50% AEDG's for Medium Office Buildings, Medium and Big Box Retail Buildings, and Grocery Stores. He is one of the four participants in the "Engineer's Notebook" monthly column in the ASHRAE Journal. He received the ASHRAE New York Chapter Distinguished Service Award in 2011 and the ASHRAE Distinguished Service Award in 2012. He has been a member of the Board of Directors of the USGBC NY Chapter, the vice-chairman of the USGBC Energy and Atmosphere Technical Advisory Group and a member of the AIA National Committee on the Environment.



Mr. Nall was named one of the "25 Newsmakers of 2007" by Engineering News Record magazine. He was named "Outstanding Practitioner, 2004", by the US Chapter of the International Building Performance Simulation Association. Notable projects include the BASF U.S. Headquarters, the Newseum in Washington, DC, the Hearst Corporate Headquarters, the U.S. Embassies in Sofia, Bulgaria and Cape Town, South Africa, the Clinton Presidential Library, the New York Times Headquarters and the Alcoa Corporate Headquarters. He is the author of over 40 papers in technical and professional journals. He has been a Visiting Lecturer at the University of Pennsylvania, Cornell University and Princeton University Schools of Architecture and an Adjunct Associate Professor of Architecture at Columbia University.



Mr. Eric Ao, CEM, CMVP, and CAP, has been working in the energy management field for more than 9 years. As a senior consultant, he has led and was a subject matter expert in a variety of projects in the Asia Pacific region, where he helped clients improving building performance while reducing asset management costs. Eric is also a specialist in energy metering and building system integration and a pioneer in monitoring-based commissioning (MBCx), a data-driven practice that leverages big data, IoT, and analytics to elevate engineering minds. He led the team in deploying the biggest monitoring-based commissioning platform in Asia Pacific at MGM Macau.

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