



**Building Energy Quotient (bEQ) on Improving Facilities Performance**  
**Global Sustainability Give Back Week**

**Date** : 23 Apr 2018 (Monday)  
**Time** : 2:00PM – 5:30PM Seminar (Registration will start at 1:30PM)  
**Venue** : Macao Studio City (3/F Grand Ball Room)

**Seminar Program:**

1:15PM – 1:50PM	<b>Registration</b>
1:50PM – 2:00PM	<b>Welcome Address and Opening Speech</b> <i>Mr. Syed Mubarak, President ASHRAE MACAO Chapter</i>
2:00PM – 2:45PM	<b>ASHRAE Building Energy Quotient (bEQ)</b> <i>Mr. Hoy Bohanon, PE, LEED AP, BEAP CIC,</i>
2:45PM – 3:30PM	<b>Continuous Energy Commissioning Program in Hospitality Sector</b> <i>Mr. Justin Ng, Assistant Vice President of Sustainability and Life Cycle Management for Galaxy Macau, MEI Chartered Energy Manager, CEM, CEA, and CAP</i>
3:30PM – 3:45PM	<b>Tea Break</b>
3:45PM – 4:30PM	<b>Energy Management &amp; Sustainability</b> <i>Mr. Rishi Tirupari, Director of Sustainability for Sands China Ltd, LEED O+M AP, CSBA, CEM</i>
4:30PM – 5:15PM	<b>EUI Data Analysis</b> <i>Mr. Peter Chan, Executive Director of Engineering MGM Macau and MGM COTAI, Immediate Past President ASHRAE MACAO Chapter</i>
5:15PM – 5:20PM	<b>Question and Answers</b> <i>Moderated By: Mr. Syed Mubarak, President ASHRAE MACAO Chapter</i>
5:20PM – 5:30PM	<b>Closing Address and Awarding</b> <i>Mr. Edmund Lei, President – Elect ASHRAE MACAO Chapter</i>

<b>Language:</b>	English
<b>Fee :</b>	Free of Charge
<b>Seat :</b>	100 ; First Come, First Served
<b>Remark:</b>	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.)

**Registration & Enquiry:**

Number of participants is limited and prior registration is required. Fill in registration form attached to [info@ashrae-macao.com](mailto:info@ashrae-macao.com). The deadline of registration is on **Apr 20, 2018**, 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 Apr 21, 2018. For enquiry, please contact Mr. Dickson Yeung at [info@ashrae-macao.com](mailto:info@ashrae-macao.com) (852) 6399 5643 / (853) 6288 5380.

**Supporting Organizations:**



澳門物業設施管理協會  
 Macau Properties and Facilities Management Association



### Distinguished Speakers:

**Hoy Bohanon**, PE, LEED AP, BEAP is principal in Hoy Bohanon Engineering, PLLC, a firm that focuses on improving the performance of existing mission critical buildings. Mr. Bohanon began his engineering career as a research and design engineer, and then gained experience as a project engineer, facilities engineer, facilities manager, indoor air quality research engineer, environmental engineer, and business owner. He has a master's degree in engineering from North Carolina State University, and a bachelor's degree in mechanical engineering from Georgia Institute of Technology.

Mr. Bohanon has written technical papers and articles on indoor air quality, operations, and maintenance and is a frequent presenter at technical society meetings. He is a recipient of the ASHRAE Distinguished Service Award and is chair of ASHRAE Standard 62.1 committee, *Ventilation for Acceptable Indoor Air Quality*. He also serves on the BEQ committee. He is chair of the US Technical Advisory Group panel 1 (general principles) and panel 4 (indoor air quality) for ISO TC205 *Building Environment Design*. He is a co-author of *The Indoor Air Quality Guide: Best Practices for Design, Construction and Commissioning and Performance Metric Protocols for Commercial Buildings: Best Practices Guide*. He also teaches multiple courses for the ASHRAE Learning Institute addressing ASHRAE 62.1 and IAQ. Mr. Bohanon is also a member of the Professional Engineers of North Carolina, US Green Building Council, and I2SL.



**Justin Ng**, MEI Chartered Energy Manager, CEM, CEA and CAP, has been working in Energy and Sustainability Management and Consultancy Industry for 15 years in North America, Asia Pacific and Southeast Asia regions. His main area of works involved in Energy Audit, Performance Contracting Project Management, Green Building Consultancy and Corporate Energy and Sustainability Program Development for commercial and industrial sectors. Currently he is holding a position as Assistant Vice President and leading a Sustainability and Life Cycle Management team at Galaxy Macau. The main focuses are driving the development of energy and sustainability program, system life cycle and continuous improvement program.

**Rishi Tirupari** is the Director of Sustainability for Sands China Ltd. where he is responsible for the energy efficiency, sustainability strategy and green meetings & events across Sands China Ltd properties comprising of more than 30 Million sq.ft of integrated resort facility with over 13,000 rooms across 7 brand hotels and more than 1.5 million sq.ft MICE space.

Prior to joining Sands China Ltd., Rishi headed the Las Vegas Sands' US properties sustainability efforts and was responsible to set and execute the Sands ECO360 strategy for The Venetian Las Vegas, The Palazzo Las Vegas and Sands Expo and Convention Center and was instrumental in Las Vegas Sands achieving their carbon emission, waste and water usage reduction targets.

Rishi was also the National Chair for the USGBC Student groups where he oversaw and directed the programs of USGBC Students in all higher educational institutions in multiples states across the U.S. He is also currently serving on USGBC's LEED Pilot Credit Committee where he facilitates the introduction of new credits to the LEED rating systems.

Rishi has a Master of Business Administration from Hong Kong University of Science and Technology, a Master of Science in Construction Management from University of Washington, Seattle and a Bachelor in Civil Engineering from JNTU Hyderabad, India. Rishi is a LEED O+M Accredited Professional, a Certified Sustainable Building Advisor and Certified Energy Manager (CEM).



**Peter Chan Seck-Pong**, Executive Director of Engineering at MGM Macau and MGM COTAI, and Immediate Past President ASHRAE MACAO Chapter.

Peter spent 17 years in the MEP installation industry between 1984 and 2002. Projects he had participated included HSBC Hong Kong Headquarters, Beijing Jing Guang Center, Pamela Youde Nethersole Eastern Hospital, Singapore Civil Defence Force Headquarters as well as Design & Build of Singapore Armed Force Kranji Camp Extension. Peter moved to Property and Facilities Management field since 2003. His experience covers high end residential buildings, offices, shopping centres and Integrated resorts in Canada and Macau. Peter joined MGM MACAU in 2010 and since then the Property has won two times the CEM Energy Saving Awards, 2 times the CEM Energy Saving Concept Awards and the ASHRAE Technology Award.

Peters holds a MSc degree in Building Services Engineering from Brunel University, England and a MBA degree from South Illinois University, Carbondale.

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