



Dr Benny CHOW

Convenor of Steering Committee for Hong Kong Smart Green Building Design Best Practice Guidebook Including Interfacing with Smart City, Hong Kong Green Building Council

- Aedas, Director of Sustainability
- BEAM Society Limited, Director
- CSUS China Green Building Council, Committee Member
- Shenzhen Green Building Association Expert Panel Member
- ASHRAE(HK Chapter) Leader of Ventilation and Health TWG

Dr Benny Chow is the Director of Sustainability at Aedas Ltd, focusing on sustainable building design, building physics, Green-BIM, building performance simulation, and healthcare engineering design and research. Dr Chow is now appointed as the Director of BEAM Society Limited, the committee member of the USGBC LEED Data Centers Advisory (China) Committee, the committee member of the CSUC China Green Building Council, Shenzhen SZJS Green Building Professional Committee, and the Leader of the Ventilation & Health TWG (ASHRAE 170) of ASHRAE (Hong Kong Chapter).

Dr Chow was the Honorary Associate Professor in the HKU Department of Mechanical Engineering, the Adjunct Associate Professor of the CUHK Institute of the Earth and Space Information Science, and is currently the Adjunct Assistant Professor of the Faculty of Medicine at CUHK focusing on health-related built environment research. Dr Chow brings with him more than 25 years of experience in Sustainable Design and involved in more than 400 projects located in more than 40 cities.

Topic: Integrated Smart Green Technologies for Improving Human Health, Wellbeing and Productivity

Smart green technology is currently playing a crucial part in building development and will continue to be in the future, especially in Hong Kong's high-rise high-density, compact built environment. Innovative and transformative technology is being adopted to improve efficiency, cost-effectiveness, and living standards. The use of interconnected technologies and communications infrastructure has enabled buildings to be more responsive and for devices and occupants to communicate inside and outside the building. As such, the occupants' health and productivity will be greatly protected and enhanced.

This presentation will introduce the emerging trends in smart green building technology will also be touched on. A set of 32 practical design and operation guidelines and strategies for advancing smart green buildings and optimising the performance of new and existing buildings will be set out and reflected on with both local and overseas case studies and good practices.

This presentation will also address the cybersecurity and data privacy concerns that are relevant to the adoption of smart green technology as well. With a better understanding of how technology can be used to optimise overall building performance and enhanced awareness in the building industry, the interface between smart and green can be re-defined.



周家明博士

香港智慧綠色建築設計指引-督導委員會召集人

- Aedas 董事 (綠色建築和可持續生態發展)
- 建築環保評估協會(BSL)董事
- 中國城市科學研究會綠色建築與節能專業委員會委員
- 深圳市住建局綠色建築專業委委員
- 深圳市綠色建築協會專家委員會委員
- ASHRAE(HK Chapter) 通風及健康技術工作組組長

周家明博士(Dr Benny CHOW) 是Aedas國際建築設計事務所的董事，主管亞太區綠色建築和可持續生態發展研究，是一位屢獲殊榮的國際綠色建築設計專家。周博士也為建築環保評估協會(BSL) 董事、USGBC LEED 數據中心(中國)諮詢委員會成員、中國城市科學研究會綠色建築與節能專業委員會委員、深圳市住建局綠色建築專業委委員、ASHRAE (香港分會) 通風及健康技術工作組組長和國內關係及事務委員會主席、香港建造業議會建築信息模擬專責委員會委員。周博士曾為香港綠色建築議會(HKGBC)的副主席、董事及業界標準及作業委員會主席。

周教授也積極從事教學和研究的工作，香港大學機械工程學系名譽副教授、香港中文大學太空與地球科學研究所客座副教授。現專注健康建築環境的研究，現為香港中文大學醫學院客座助理教授。周博士擁有25年以上綠色建築設計和科研的經驗，項目經驗遍布世界各地40多年城市，參與超過400個項目。

題目：應用智能綠色技術 改善人類身心健康及生產力

在香港這個高樓大廈林立及高密度的建築環境中，智能綠色技術現時於建築開發過程中起著重要的作用，亦將成為未來的發展趨勢。創新和變革性的技術不但能提高效率，亦有助控制成本效益和提升生活水平。互連技術和通信基礎設施的使用除了能使建築物的應變速度加快，亦可促進設備和居住者在建築物內外進行通信，從而，保護建築物使用者的健康和提升其生產力。

是次演講將介紹智能綠色建築技術的新興趨勢，並簡介32項實用的設計和營運指南及策略。這本指引將結合本地和海外案例研究及良好實踐，以推動智能綠色建築及優化新建築和現有建築的性能。

此外，本演講將探討智能綠色技術相關的網絡安全和數據隱私議題。透過深入了解如何善用技術優化建築物性能，從而提升建築業界的認知，重新定義智能與環保之間的連繫。