

CHEONG KOK WAI DAVID (Dr)

PhD(Nott), BEng(Hons)(Lough), DipBldg(SingPoly), Fellow (ISIAQ), MASHRAE



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CURRICULUM VITAE

ACADEMIC QUALIFICATIONS:

- 1994, PhD, University of Nottingham, UK
- 1990, BEng(Hons) (Building Services Engineering), Loughborough University of Technology, UK
- Fellow, ISIAQ (International Society of Indoor Air Quality and Climate)
- Member, ASHRAE (American Society of Heating, Refrigerating and Air-conditioning Engineers)

APPOINTMENTS HELD:

- Post-doctoral Research Fellow (UK)(1994)
- Lecturer (1994-98); Assistant Professor (1998-2001), Associate Professor (2002-present) National University of Singapore

ADMINISTRATIVE LEADERSHIP:

- Deputy Course Leader for Building Undergraduate Course (1995-1999)
- Programme Director for BSc (Building) and BSc (Project & Facilities Management) (2001/2006-2010)
- Assistant Dean (Academic) (2010 – 2015)
- Vice-Dean (Administration & Finance) (2016 to present)

HONOURS AND AWARDS:

- ASEAN Energy Award (2011)
- Zero Energy Bldg – Minister for Nat. Dev. R&D Award 2011 (Dist. Award) – Team prize (June 2011)
- Overseas Attachment Program Fellowship (2006)
- The Enterprise Challenge (TEC) Awards – Public Service Division, PMO, Singapore (2004)
- Post-doctoral Fellowship funded by EPSRC (Engineering and Physical Sciences Research Council, UK) (1994)

PROFESSIONAL EXPERIENCE:

- International and National Activities
 - International Society of Indoor Air Quality and Climate (ISIAQ)
 - Vice President (Research) (2012 – 2016)
 - Council Chair of 7 Scientific Technical Committees (STC) (2012 – 2016)
 - Board of Directors, World Society for Sustainable Energy Technologies, UK (On-going)
 - Member of the Editorial Advisory Board, International Journal of Low Carbon Technologies, UK (On-going)
 - Member of the Editorial Board of Open Environmental Engineering Journal (On-going)
 - External Reviewer of Research Grant Council (RGC) of Hong Kong, Hong Kong SAR (On-going)
 - External Reviewer of City University's Applied Research Grant (ARG), Hong Kong SAR (On-going)
- Local Activities
 - Member of the BCA Academy Academic Panel (2014-2016)
 - Chairperson of the Board of Examiners for Specialist Diploma in M&E Co-ordination at BCA, Singapore (2012 – 2018)
 - Member of Singapore Certified Energy manager Curriculum and Examination (SCEM C&E) Board (2009 – Present)
 - Chair of the SCEM C&E Board (2018 - 2020)
 - Validation Panel for the Diploma in Hotel and Leisure Facilities Management in the School of Architecture and the Built Environment of the Singapore Polytechnic (2 – 9 Dec 2010)
 - External Examiner, Ngee Ann Polytechnic (2003 – 2005) (Re-appointed to server another term from 2005 – 2007)
 - Invited to participate in Singapore Civil Defence Force (SCDF) "Classified" projects with major national significance (1997 – Present)
 - Technical Assessor for Indoor Air Quality Assessment for Singapore Laboratory Accreditation Scheme (SINGLAS) – Productivity and Standards Board (PSB), Singapore (1997 – Present)

RESEARCH PUBLICATIONS STATISTICS:

- No. of Articles in International Refereed Journal: 95
- No. of Shorter Article in Journal: 2
- No. of International Conference Papers: 116
- No. of Local or Regional Conference Paper: 3
- No. of Local, Regional or International Seminar, Public Talk, Lecture: 4
- No. of Book/Monograph Authored: 1
- No. of Editorial Work on Book: 2

CITATIONS:

- Publications have been cited by others in more than 30 International Refereed Journals with a h-index of 23 (self-citations excluded)

SELECTED PUBLICATIONS:

- Cheong, K W and H Y T Lau, "Development and application of an indoor air quality audit to an air-conditioned tertiary institutional building in the tropics". *Building and Environment*, 38, no. 4: 605-616, 2003.
- Cheong, K W, W. J. Yu, K W Tham, S C Sekhar and R. Kosonen, "A Study of Perceived Air Quality and Sick Building Syndrome in a Field Environment Chamber Served by Displacement Ventilation in the Tropics". *Building and Environment*, 41, no. 11, 1530-1539, 2006.
- Cheong, K W, K W Tham, R Balasubramanian and Mano Kalaiarasan*, "Vertical distribution of NO₂ in an urban area: Exposure risk assessment in children". *International Journal of Civil and Environmental Engineering*, 2, no. 4, 2012.
- de Dear, R. J., T. Akimoto, E.A. Arens, G. Brager, C. Candido, K W Cheong, B. Li, N., Nishihara, S C Sekhar, S. Tanabe, J. Toftum, H. Zhang and Y. Zhu, "Progress in thermal comfort research over the last twenty years". *Indoor Air*, 23, no. 6, 442-461, 2013.
- Cheong, K W and S Huang, "Performance evaluation of personalized ventilation with two types of air terminal devices coupled with displacement ventilation in a mock-up office". *HVAC&R Research*, 19, no. 8, 2013.

RESEARCH GRANTS:

- Total number of research projects: 28
- Total project value obtained: SGD 8,105,444.40 comprising
SGD 2,918,078.30 (as principal investigator and co-investigator) SGD
5,187,366.10 (as collaborator)

SELECTED RESEARCH PROJECTS:

- Evaluation of performance of the newly developed enhanced displacement ventilation in office environment in the tropics. Academic Research Grant (NUS)
- Evaluation of displacement ventilation system in the tropics. Co-funded by BCA (52.8%) and Halton Oy Finland (47.2%)
- Evaluation of energy efficient personalized air units for enhanced ventilation in the tropics. Academic Research Grant (NUS)
- Modelling of the air quality and ventilation in indoor environment. Academic Research Grant (NUS)
- Experimental investigation of cooling load dynamics and user acceptability evaluation of under floor air distribution (UFAD) systems in hot and humid climate. Academic Research Grant (NUS)
- Zero energy sources and efficiency design towards a zero energy building at BCA Academy. Co-funded by NUS (40.3%) and External Funding (59.7%)
- Zero energy sources and efficiency design towards a zero energy building at BCA Academy. Co-funded by NUS (31.9%) and External Funding (68.1%)

LIST OF ADVISEES:

- PhD (Graduated) – Sup: Christoph Luerssen (2021); Prashant Anand (2019); Mano Kalaiarasan S/O Sellappa Ponnampalam (2011); Sun Weimeng (2011); Yu Weijiang (2007); and Priyadarsini R.M.T.
- PhD TC Member: Wang Yi (On-going); Yang Junjing (2014); Sheikh Mahbub Alam (2013); Li Ruixin (2011); Fadeyi Moshood Olaw Ale (2009); Yang Bin (2009); Uma Maheswaran Cheyyar Ramanathan (2006); Song Jiafang (2007); Henry Cahyadi Willem (2006); Gong Nan (2006); and Henry Feriadi (2004)
- MSc(Graduated) – Sup: Huang Shuguang (2012); Li Qiaoyan (2011); Abhishek Gupta (2005); Kazi Sanjida Naher (2004); and Xie Yong Heng (2003)