

CURRICULUM VITAE

July 2015

NAME: Professor Edwin Hon-wan CHAN

Architect, Surveyor, Engineer and Barrister (Inner Temple)

Professor & Associate Head (Research),

Building & Real Estate Dept, The Hong Kong Polytechnic University

Adjunct/Visiting

Professor,

University of South Australia, Australia

Sun Yat-sen University, China

Suzhou University of Sc. & Tech., China

Universiti Teknologi Malaysia, Malaysia

Visiting Scholar

University of California Berkeley, USA

University of Cambridge, UK (Martin Centre)

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SEX: Male

BIRTH PLACE: Hong Kong

EDUCATION

<u>Date</u>	<u>College / University</u>	<u>Qualifications</u>
1981	University of Sheffield, UK.	B.A.(Hons) in Architecture
1983	University of Sheffield, UK.	Postgrad. Diploma (Architecture)
1984	University of Sheffield, UK.	M.A. in Architecture
1988	University of London, UK.	LLB(Hons)
1988-9	Council of Legal Education, UK.	BAR FINALS(Hons)- Trinity 1993
1996	University of Hong Kong	Postgrad. Diploma in the PRC LAW
1998-2002	Kings College, London University, UK	Ph.D. (Full time) 2002

CAREER HISTORY:

Practised in the industry of Hong Kong and the United Kingdom as an Architect and a Building Surveyor, and earned professional qualifications of Authorized Person (Architect) & Barrister-at-law. During the period 1990-1994 in Hong Kong, served as a part-time lecturer to Hong Kong University and Hong Kong City University.

Joined the The Hong Kong Polytechnic University in 1994:

Department of Building & Real Estate,

Assistant Professor (1994-97),

Associate Professor (1997-2002 Grade B, 2002-2005 Grade A)

PhD chief supervisor(2000-) (successful completion >10 PhDs)

Full Professor (Since 2005-)

TEACHING

Teaching Duties

Postgraduate Courses (since 1994):

PhD chief supervisor: since 2000

PhD student Supervision (see Research Graduate Student Supervision)

Numerous nos. of MSc dissertation Supervision (completed)

MSc in Construction and Real Estate (Subject Leader)

MSc in Project Management (Subject Leader)

Programme Leader: MSc Construction Law and Dispute Resolution (since 2004-)

Academic Discipline Leader of Law and Policy Discipline (since 2010-)

Subject Leader/Lecturer of subjects:

BRE336 Development Control Law

BRE524 Urban Planning and Urban Design

BRE542 Construction Law

BRE545 Dispute Management and Law for International projects

BRE547 Dispute Resolution project

BRE546 Mediation Training

BRE549 Arbitration Law and Practice

RESEARCH

A. Research

Research area:

Urban development and Land-use policy, urban governance, institutions and institutional changes, Regulatory reform and policy of green buildings and sustainable urban development, real estate market mechanism, economic analysis of law (regulations and policies) related to construction and real estate, innovative contracting and dispute resolution strategies.

- **Leader, Urban Land Use group of the PolyU Research Institute of Sustainable Urban Development** (Sustainable urban land use research area)

- **Discipline leader, Construction and Real Estate Law and Policy**

Research Group Leader with related projects as PI:

- Development control & heritage conservation policy for Sustainable Dense Urban Development
 - Low carbon cities
 - Healthy/Green Building
 - Dispute Resolution Model/ Optimization Program
 - Best Practice in International Contracting
 - Building Energy Efficient Policy and Transaction costs
 - Sustainable urban fringe development
 - Community housing and institutional framework
- **Coordinator, CIB Task Group 79: Building Regulations and Control in the face of climate change (Since 2011).** Explore new alternative visions on the role, the system, the formulation, the content, the organization of building regulations and building control because of the changing circumstances of climate change. Joint coordinating with Prof. Henk Visscher, Delft University of Technology, Netherlands.

B. Publications or Other Equivalent Output

(SEE LIST OF PUBLICATIONS SINCE JOINING THE POLYU (1995))

Total number of publication:

Since 1995 joining the University, achieved over **350 pieces of Publications** including:

112 Nos. Articles for Externally Refereed International Journal
 33 Nos. Chapters in Edited Books
 105 Nos. Refereed Conference Papers
 19 Nos. Keynotes and Invited conference paper
 11 Nos. Authored Books
 24 Nos. Edited Books (editor)
 41 Nos. Articles for Policy or Professional Journals
 11 Nos. Other seminar papers
 26 Nos. High Level Consultancy Reports
 18 Nos. Journal and Series Editorship

(See Full publication list for details or also can visit webpage: <http://www.bre.polyu.edu.hk/staff/bsedchan/>)

C. Research Postgraduate Students Supervised

Successful PhDs As Chief Supervisor:

<u>My Role</u>	<u>Institution</u>	<u>Degree</u>	<u>Year awarded</u>
Chief Supervisor	HK PolyU	PhD	2005 (A Chan)
Chief Supervisor	HK PolyU	PhD	2009 (G Lee)
Chief Supervisor	HK PolyU	PhD	2011(Y Xu)
Chief Supervisor	HK PolyU	PhD)	2012 (Qian
Chief Supervisor	HK PolyU	PhD	2012 (p Xu)
Chief Supervisor	HK PolyU	PhD	2013 (Au)
Chief Supervisor	HK PolyU	PhD	2015 (S. Minsan)

Successful PhDs As Co-Supervisor:

<u>My Role</u>	<u>Institution</u>	<u>Degree</u>	<u>Year awarded</u>
Co-supervisor	HK PolyU	PhD	2007 (F wong)
Co-supervisor	HK PolyU	PhD	2007 (A Yu)
Co-supervisor	Peoples University of China	PhD	2007 (J Zhang)
Co-Supervisor	HKU	PhD	2014 (S. Liu)
Co-Supervisor	HKPolyU	PhD	2014 (Y Lai)

On-going PhDs and Post-doctoral as Chief Supervisor:

5 Full-time PhD (including 3 Dual PhD scheme candidates)

2 Part-time PhD

3 Post-doctoral

D. Research Grants and Contract research

- Since 1995, secured over 60 research projects of total funding over HK\$35,000,000

SEQ. NO.	PROJECT TITLE	PI/Co-I	Funding Source(s) and Amount (HK\$)	Start Date	(Expected) Completion Date
<u>ON-GOING PROJECTS:</u>					
Research Grant Council (RGC) CERG/GRF/PPR Competitive Bid Grants and External Competitive Grant Projects					
1.	A Framework for the Analysis of Embodied Carbon and Construction Cost of Heritage Conservation Projects (newly awarded GRF)	PI	GRF, (PolyU 152006/14E) 0.6 Million	2015	2018
2.	Cost-benefit-analysis (CBA) for Implementing Green Buildings (GB) Promotion Incentives: With Transaction Costs (TCs) Considerations	PI	Construction Industry Council (CIC), 1,206,695	July 2014	Jan 2017
3.	Sustainable Planning Criteria (SPC) for Age-friendly Precincts (AFP) in the New Development Areas (NDAs) of Hong Kong	PI	PPR, Central Policy Unit 0.524 million	Jan 2014	April 2015
4.	Social Considerations in Planning Public Open Space to Integrate Elderly People in Urban Renewal (GRF grant project B-Q31Q)	PI	GRF, 0.998 million (PolyU 5405/12H)	1 Dec 2012	1 Dec 2015
5.	Framework for Implementing the Transfer Development Rights in the Conservation of Privately Owned Built Heritage (PPR grant project K-QZ17)	PI	PPR 0.365 million (PolyU5002-PPR 12)	1 Oct 2012	30 Nov 2014
Other Competitive Bid Grant Projects					
6.	Study of Density and Community Facilities for Neighborhood Planning: Part of a Larger Research Project on Re-defining the Density of City (joint research with MIT, USA)	PI	RISUD Block Grant 0.38 Million	25-SEP-2014	Dec 2015
7.	Collaborative Research for Sustainable Urban Renewal for Dense City	PI	RISUD Block Grant 0.75 Million	28-SEP-2013	Oct 2015
8.	Indicators in the Construction Industry for Enhancing Low Carbon Emissions in the Development of a Compact City (5-ZJF5)	PI	CII-HK Ltd 0.30 million	28 Sept 2012	28 Sept 2015
9.	Green Building System Designs for the New Dormitory at Gaoming	PI	Esquel Textiles,China 0.38 million	05-APR-2012	30 Aug 2015
10.	A Framework for Developing Incentive Schemes to Promote the Green Building (GB) Market in Hong Kong: A Transaction Costs (TCs) Approach	PI	Central Research Grant 0.32 million	28-SEP-2012	28-SEP-2015
11.	Implementing a Typical Incentive Scheme (TIS) for Promoting the Building Energy Efficiency (BEE) Market in Hong Kong: A Transaction Cost Perspective	PI	Block Grant except CRG 0.289 million	15-JUN-2012	15-JUN-2015

12.	An Exploratory Study of Embodied Carbon and Construction Cost of Heritage Conservation Projects (PolyU 5110/13E)	PI	Fund for GRF Project Rated 3.5 (CRG) 0.155 Million,	June 2014	June 2016
13.	An Investigation into Energy Performance Contracting for Enhancing Its Role in Energy Conservation in Hong Kong (GRF grant project B-Q27L)	Co-I	GRF 0.807 Million PolyU 5188/11E	01-JAN -2012	June 2015
14.	Development of Building Design and Planning Guidelines for Reducing Noise Annoyance and Restoring Stress (GRF grant project B-Q31S)	Co-I	GRF 0.70 million PolyU 5121/12E	1 Jan 2013	Jan 2016
			Subtotal: 8.92 million		
Completed Projects:					
Research Grant Council (RGC)					
CERG Competitive Bids Projects					
1.	Social considerations on conservation of built Heritage for Sustainability Urban Renewal (GRF grant project B-Q27P)	PI	GRF, 0.540 million (PolyU 5407/11H)	1 Jan 2012	June 2014
2.	Benefit-cost Analysis of Regulatory Controls for Green Buildings	PI	Block Grant except CRG 0.425 million	SEP 2009	29-Jun -2014
3.	Optimization Program for the Selection of Dispute Resolution Mechanisms to Resolve International Construction Disputes (B-Q663)	PI	CERG \$0.405 million	Jan 2004	Dec 2007
4.	Balancing Provision of Public and Private Space in High-density Housing Development: Theory and Empirical Testing for Hong Kong (B-Q01B)	Co-I	CERG 0.216 Million	Dec 2006	Dec 2008
5.	"Facilitation or Constraint: Deciphering Land-use Development Control Decisions in Hong Kong", Funding	Co-I	CERG \$0.455 Million	Dec. 2001	Nov 2004
6.	A Model for Buildability Assessment in Hong Kong	Co-I	CERG \$.0415 million	Dec, 2002	Dec, 2004
7.	Public Housing Construction as Agent of Technology Growth: Case of the Building Industry in Hong Kong	Co-I	CERG \$0.413 Million	Feb 2003	Jan 2005
8.	"Investigating Contractor's Optimal Competition Strategy for Competing for Public Works in Hong Kong",	Co-I	CERG \$0.402 Million	DEC 2003	NOV-20 05
9.	"Facilities Management Benchmarking for Major Corporations in the Asia Pacific Regions" (CERG Joint project with HKU: Funding transferred half-way)	PI (Pol yU)	CERG \$0.462 Million	Nov 1998	Dec. 1999
			Subtotal: HK\$4.2 million		
Completed External Research Grant Projects:					

1.	Reform of Development Approval Process for Sustainable Development	PI	Bauhinia Foundation Research Centre 0.86 Million	Nov 2010	Dec 2011
2.	The Impact of One-Hour Living Radius on Housing Demand in Hong Kong	Co-I	HKSAR 0.60 million	Feb 2010	Sept 2011
3.	Solutions Implementation of Healthy Buildings in Hong Kong	PI	Funding contribution from the CII-HK. \$0.92 million	Oct. 2003	Aug. 2005
4.	Repair, Maintenance and Sustainability of the Aging Residential Building Stock in Hong Kong	Co-I	With funding contribution from the CII-HK \$1.300 Million	JAN 2005	June 2006
5.	Collaborative Research on Construction Legislation and Publication	PI	Hong Kong Institute of Construction Managers w/ top up from PolyU \$0.300 million	April 2000	Oct. 2002
			Subtotal: HK\$5.38 million		
	Completed CERG/GRF/PPR Fundable not funded				
1.	Exploratory Study on the Critical Design Considerations Factors for Healthy Aging in Urban Renewal (Fundable PPR project)	PI	Central Research Grant 0.150 million (PolyU5002-PPR-11)	Mar-2012	Dec-2014
2.	A Strategic Framework to Incorporate Public Participation in the Sustainable Conservation of Built Heritage for a Harmonious Hong Kong (fundable PPR project)	PI	Block Grant except CRG 0.130 million (PolyU5003-PPR-10)	Aug-2011	30-july 2013
3.	Public Space and Building Density of Private Mass Housing Development in Hong Kong (G-U078)	PI	Central Research Grant \$0.160 Million	March 2005	June 2008
4.	Decision Model for Dispute Management of International Construction Projects	PI	Central Research Grant \$0.20 million	Jan 2003	June 2004
5.	Analyzing Planning Control Decisions on Industrial Property Redevelopment in HK	Co-I	Central Research Grant \$0.170 Million	Jan 2004	Dec 2005
6.	"Re-engineering Construction Financing: A Case Study of the Construction Industry in Hong Kong SAR of its Market Structure, Performance and Behaviour",	Co-I	Central Research Grant \$0.240 Million	DEC-1999	Dec. 2002
7.	"Comparative Study of the Legal Control on Project Development Process in China and Hong Kong"	Co-I	Central Research Grant \$0.207 Million	Oct 1999	Oct. 2001
			Subtotal: HK\$2.02 Million		
	Completed RGC Direct Allocation Grant				
1.	Assistive Technique to Elicit Public's Preference on the Adaptive Reuse of Built Heritage	PI	Central Research Grant 0.738 million	Oct 2009	30-Jun-2012

2.	An Empirical Analysis of the Impacts of CEPA on the Hong Kong Construction Professional Practice and Regulatory Controls	PI	Block Grant except CRG 0.200 Million	Feb 2009	31-JAN-2011
3.	A Model for Evaluating Environmental Legislative Impacts on Property Developments	PI	Block Grant except CRG 0.738 million	Aug 2008	31-JUL-2011
4.	Objective System for Developing Policy on Conservation of Built Heritage(G-YG64)	PI	Central Research Grant \$0.25 million (Cross-dept'l)	Sept 2008	May 2011
5.	Requirements Management during the Development Process of Construction Projects	Co-I	Central Research Grant \$0.1 million	01-NOV-2008	Feb 2011
6.	A Framework for Developing and Managing Employer Requirements in Design and Build Contracts of the Construction Industry	Co-P I	Block Grant except CRG \$0.10 million	June 2007	Feb 2011
7.	Research of Low-carbon Industry Development in Shanghai Based on Carbon Productivity	PI	Central Research Grant \$0.3 million	June 2010	22-NOV-2010
8.	A Framework for the Sustainable Adoption of Green Specifications in the Hong Kong Construction Industry (G-YF07)	Co-P I	Central Research Grant (0.30 million)	March 2006	June 2009
9.	Professionalism and Leadership Styles Among Building Professionals (Chief Supervisor of a PhD study)	PI	RGC Direct Allocation Grant \$0.055 million	Oct 1997	April 2005
10.	Contract Policy Governing Design Management of Design and Build Projects (As PI)	PI	RGC Direct Allocation \$0.240 million	June 2001	June 2003
11.	Integrated on-line 'AEC' extranet system for the construction professional practice	PI	RGC Direct Allocation Grant \$0.28 million (Cross-dept'l)	Sept 2003	Aug 2005
12.	Evaluation of the Building Laws for Sustainable Dense Development in Hong Kong	PI	RGC Direct Allocation \$0.160 million	June 1999	June 2001
13.	Revamp of Building Regulation for Dense Urban Development	PI	Central Research Grant \$0.040 million	Jan 1999	June 2000
14.	The Future Development of Building Surveying Profession in Hong Kong SAR in the Context of its Professional Role in the PRC Building Industry	PI	Central Research Grant \$ 0.05 million	June 1997	Nov. 1998
15.	Professional Practice for Architects & Surveyors practicing as an Authorized Person in Hong Kong	PI	Central Research Grant \$0.200 million	July 1995	Dec. 1997
16.	Housing Bank in Mainland China	Co-I	RGC Direct Allocation \$0.200 million	Feb 2002	Feb 2005
			Subtotal: HK\$4.86 million		
	Completed Large Equipment Grant:				
1.	"Student-centric teaching/learning: Multi-media Communication Centre (MMCC)" (Completed: The MMCC centre for the BRE Dept	Co-I	PolyU Large Equipment Grant \$0.600 million	Sept 2001	Sept 2002

	was set up/ operation since Sept.2002)				
	Completed Others				
1.	"International Comparative Case Studies on Post-construction Liability and Dispute Resolution" by the International Council for Building Research Studies and Documentation (CIB) Working Commission W87. (Completed: a 3-parts book chapter in the CIB book publication)	PI	Joint Project of the CIB W87: (Project Coordinator for HK)	1997	April 1999
	Completed: Learning and Teaching Dev. Project				
1.	Participatory Case Study approach with On-line resources for Teaching/Learning of legal subjects on construction practice (2005-08/LTG/SS/BRE2)	PI	LTC Funding \$0.1 million	1 Sep 2006	30 Jun 2008
	On-going Others				
1.	Developing an Integrated Collaborative Platform for Sustainable Urban Renewal: A Pilot Study (4-ZZC7)	Co-I	Dept earning 0.60 million	01-SEP-2012	Sept 2015
3.	Network for New Institutional Urban Studies	Co-I	Block Grant except CRG 0.60 million	01-MAY-2009	Nov 2012
			Subtotal: HK\$1.43 million		

	Pending Grant Proposal				
1	Flagship-Led Urban Renewal: A Catalyst for Urban Sustainability (Preliminary Proposal Shortlisted)	PI	RGC, CRF 7.5 Million	2015	2018
2	New Approach for New Town Development : Integrative planning system	PI	ITF, HKSAR 14 Million	2016	2018

D. HONORS/AWARDS:

2015	BRE Dept Award for Outstanding Achievement in Research Funding
2013	Dean's Award for Outstanding Achievement in Research Funding
2013	BRE Dept Award for Outstanding Achievement in Research Funding
2009/2012/13	Departmental Overall Highest Performer to receive bonus award
2014	Appointed Green Building Faculty Member by the HK Green Building Council
2012	Awarded the Highly Commented Paper in the 2012 Award for Excellence by Emerald Pub: for paper in Facilities Management, 9(4)
2011	Awarded the 2011 Best Paper Award (Research Category) of the HKIA Journal, by the Hong Kong Institute of Architects
2011	Awarded the Highly Commented Paper in the 2012 Award for Excellence by Emerald Pub: for paper in Facilities, 28(11/12)
2011	One of the awardees of the Departmental Outstanding Programme Team Award for MSc Degree, (teaching) Oct 2011
2009 & 2008	Multi-departmental Participation Award, (as a member of the Public Policy Research Institute research team), Outstanding Professional Services and Innovation Award 2007 and 2008
2007	HKIA Award for Architectural Research 2007: Quality of Life for Public Housing with Emphasis on Health and Safety Issues (A team involving HKU, CUHK and PolyU)
2003	A member of the Faculty Award for Outstanding Performance, Team Award (teaching) Oct 2003
2002	Outstanding Professional Services and Innovation Award 2002, the HK PolyU Highest Consultancy Growth Award

SERVICE AND OTHER RELATED ACTIVITIES

A. PROFESSIONAL QUALIFICATIONS

<u>Dates</u>	<u>Institutes / Affiliation</u>
11/1985	Reg. Architect @ Architects Registration Council of the UK.
12/1987	Member of the Honourable Society of the Inner Temple, UK (Called to Bar as Barrister-at-Law in July 1993)
5/1992	Member, Hong Kong Institute of Architects
9/1994	Member, Association of Building Engineers, UK
2/1995	Authorized Person (Architect) under the HK Buildings Ordinance
11/1999	Member of Bar Association, Hong Kong. (Call to Bar as Barrister of the Hong Kong Supreme Court, 1993)
5/2000	Fellow of Hong Kong Institute of Facility Management
1/2000	Corporate Member, Chartered Inst. of Arbitrators (Associate in 1994)
12/2002	Fellow, Hong Kong Institute of Arbitrators (Assoc Member in 1997)
9/2004	Fellow, Hong Kong Institute of Construction Managers (Member 2001)
11/2004	Corporate Member, Royal Institute of Chartered Surveyors
Aug2005	PRC First Class National Registered Architect qualification
2004	HK International Arbitration Centre list Arbitrator
2005	HK International Arbitration Centre Accredited Mediator
2014	Member, Chartered Building Engineers, UK
2014	BEAM Pro., HK Green Building Council

B. SERVICES TO PROFESSIONAL COMMUNITY

University Services

Specialist appointment to HK PolyU

- Member Capital Project Steering Sub-committee, HK PolyU (2003-
- Member Mediation Support Group, HK PolyU (2012-)
- Member Steering Committee of the Innovation Tower project (2012-)

- Member Task Group, of Green Deck Project, PolyU (2012-
- Member Steering Committee of Homantin Slope development (2014-)
- Member Board of School of Design (2011-)
- Member Working Group on Articulation Degree Prog & Sen. Years (2011-)
- Member Research Committee (2011-)
- Warden ChengDe Hall, PolyU Student Halls of Residences (2006-2014)

Committees served at the department, faculty/school

- Departmental Management:
Associate Head (Research)
- Postgraduate Programme Management:
MSc / PgD in Construction Law & Dispute (Award Coordinator)
- Academic Discipline Leaders:
Construction & Real Estate Law & Policy
- Departmental Committee Chairs
Dept. Research Committee Chairman
- Laboratory Management
Sustainable City Laboratory Management Committee Chairman
- Faculty Committee:
Faculty Research Committee member and Working Group member
- PolyU Research Institute:
Leader of Lab of Sustainable Land use

Professional Institutes

Hon Treasurer	Hong Kong Institute of Architects (2004-06)
Member	Council of Hong Kong Institute of Architects (2003-11)
Chairman	Board of Local Affairs, Hong Kong Institute of Architects (2009-11)
Chairman	Contract and Dispute Resolution Committee (2004-2009)
Chairman	Registration Committee, HK Architects Registration Board (2006-7)
Hon Secretary	Hong Kong Institute of Arbitrators (2006-8)
Hon Secretary	Professional Green Building Council (2005-2007)
Co-chairman	HKIA/HKIS Joint Dispute Resolution Committee (2005-2009)
Member	HKIA Legal and Finance Committee (2006-)
Member	HKIAC Construction Mediation Interest Group
Member	Professional Green Building Council (2005-)
Member	Green Building Faculty, HK Green Building Council
Senior Advisor	Campus Development, Cognitio College (2012-)

Government Board/Committee

Member	Town Planning Board, HKSAR (2007- 2014)
Member	Hong Kong Housing Authority (2012-)
Member	Building Committee & Subsidized Housing Committee, HK Housing Authority (2006-)
Member	Supporting Service Development Com, Hospital Authority (2011-
Member	Capital Works Sub-committee, Hospital Authority (2012-)
Deputy Chairman	Home Purchase Allowance Appeals Committee Panel, HKSAR (2010-)
Member	Vocational Training Council (Build & Civil Eng Board) (2011-)
Specialist	HK Council for Accreditation of Academic & Vocational Qualifications (2009-)
Member	Buildings Appeal Tribunal (2004-2012)
Independent Manager,	Incorporated Management Committee, Cognitio College

LIST OF PUBLICATIONS SINCE JOINING THE POLYU (IN 1995)

Publication in refereed Journal (selected publication)

- 1) **Chan EHW** & HOU, J (2015) Developing a framework to appraise the critical success factors of transfer development rights (TDRs) for built heritage conservation, *Habitat International* 46 (2015) 35 - 43 (Jan 2015)
<http://dx.doi.org/10.1016/j.habitatint.2014.10.018>
- 2) **Yung, E.H.K. & Chan, E.H.W.** (2014) Re-examining the pro-growth ideology in cities: Conservation of historic properties in Hong Kong, *Urban Review Affairs*, (accepted in July. 2014)
<http://uar.sagepub.com/content/early/2015/06/19/1078087415589040.refs>
- 3) Yung, E.H.K., Chan, E.H.W. (2015) Evaluation of the social values and willingness to pay for conserving built heritage in Hong Kong, *Facilities* (33), 76-98, <http://dx.doi.org/10.1108/F-02-2013-0017>
- 4) Yung, E.H.K., Chan, E.H.W., Xu, Y. (2014) Community-initiated adaptive reuse of historic buildings and sustainable development in the inner city of Shanghai, *Journal of Urban Planning and Development*, 140(3), September 2014, Article number 05014003. [http://dx.doi.org/10.1061/\(ASCE\)UP.1943-5444.0000174](http://dx.doi.org/10.1061/(ASCE)UP.1943-5444.0000174)
- 5) Yung, E.H.K., Chan, E.H.W., Xu, Y. (2014) Sustainable development and the rehabilitation of a historic urban district - social sustainability in the case of Tianzifang in Shanghai, *Sustainable Development*, 22(2), 95-112. DOI: 10.1002/sd.534
- 6) Xu, P., **Chan, E.H.W.**, Visscher, H.J., Zhang, X. and Wu, Z (2015) Sustainable building energy efficiency retrofit for hotel buildings using EPC mechanism in China: Analytic Network Process (ANP) approach, **Journal of Cleaner Production**, April 05, 2014 (Online) [doi:10.1016/j.jclepro.2014.12.101](https://doi.org/10.1016/j.jclepro.2014.12.101)
- 7) Qian, Q.K., Chan, E.H.W., Visscher, H., Lehmann, S. (2015) Modeling the green building (GB) investment decisions of developers and end-users with transaction costs (TCs) considerations, *Journal of Cleaner Production* (Article in Press) DOI: 10.1016/j.jclepro.2015.04.066
- 8) Qian, Q.K., Chan, E.H.W., Khalid, A.G. (2015) Challenges in delivering green building projects: Unearthing the transaction costs (TCs), *Sustainability* (Switzerland) 7(4), 3615-3636. doi:[10.3390/su7043615](https://doi.org/10.3390/su7043615)
- 9) Yung EHK, **Chan EHW** & Xu Y (2014) Assessing the social impact of revitalizing historic buildings on urban renewal: the case of a local participatory mechanism, *J. of Design Research*, (Grade **A** journal) (Accepted Sept 2014) DOI: 10.1504/JDR.2015.069755
- 10) Yung, E.H.K., Langston, C., & **Chan, E.H.W.** (2014) Adaptive reuse of shophouses in urban renewal districts in Hong Kong, *Cities*, Volume 39, August 2014, Pages 87-98 (Accepted in 28 Feb ., 2014) (SSCI Indexed, impact factor: 1.127, Grade **A** journal) [doi:10.1016/j.cities.2014.02.012](https://doi.org/10.1016/j.cities.2014.02.012),
- 11) Conejos, S., Yung, E.H.K. & **Chan, E.H.W.** (2014), Evaluation of Urban Sustainability and Adaptive Reuse of Built Heritage Areas: A Case Study on Conservation in Hong Kong's CBD, *J. of Design Research*, 2014 Vol.12, No.4, pp.260 - 279 (Grade **A** journal) DOI: 10.1504/JDR.2014.065843,

- 12) Conejos, S., **Yung, E.H.K.** & Chan, E.H.W. (2014) Evaluation of Urban Sustainability and Adaptive Reuse: A Case study on Conservation in Hong Kong's CBD, *Journal of Design Research*, (accepted in 25 Feb. 2014, Grade **A** journal) **DOI: 10.1504/JDR.2014.065843**
- 13) Deng, Y., Poon, S. W., & Chan, H. W (2014). Synergizing Functional and Environmental Planning for Mega-event Led Urban Renewals and Beyond: Lessons from the Expo 2010 Shanghai China. *International Planning Studies*, 1-24. ISSN: 1356-3475 (Print), 1469-9265 (Online) Publisher: Talor & Francis. DOI: <http://dx.doi.org/10.1080/13563475.2014.894473>
- 14) Xu, Y., Chan, E., and Yung, E. (2014). "Overwhelming Farmland Conversion for Urban Development in Transitional China: Case Study of Shanghai." *J. Urban Plann. Dev.* , [10.1061/\(ASCE\)UP.1943-5444.0000215](https://doi.org/10.1061/(ASCE)UP.1943-5444.0000215) , 05014013. (PolyU- Grade **A** journal)
- 15) Queena K Qian, Abd Ghani Bin Khalid and Edwin HW Chan (2014) How Economic Situation Affect the Decisions on the Building Energy Efficiency (BEE) Development in Malaysia?. *Int J Waste Resources* 4:143. doi: 10.4303/2252-5211.1000143 (online publication: April 23, 2014)
- 16) Qian QK, Lehmann S, Bin Khalid AG, Chan EHW (2014) Transaction Costs (Tcs) Framework to Understand the Concerns of Building Energy Efficiency (BEE) Investment in Hong Kong. *Int J Waste Resources* 4: 135. doi: 10.4303/2252-5211.1000135 (published online February 19, 2014)
- 17) Esther H.K. Yung Philip L.H. Yu Edwin H.W. Chan, (2013), "Economic valuation of historic properties: review and recent developments", *Property Management*, Vol. 31 Iss 4 pp. 335 - 358
- 18) Langston C. , Yung E.H.K. , Chan E.H.W. (2013) **The application of ARP modelling to adaptive reuse projects in Hong Kong**, *Habitat International*, Volume 40, October 2013, Pages 233-243 (Grade **A** journal)
- 19) Yung EHK, Chan EHW, (2013) "Evaluation for the conservation of historic buildings: Differences between the laymen, professionals and policy makers", *Facilities*, Vol. 31 Iss: (11/12) 2-45. (Grade **A** journal)
- 20) Xu Pengpeng & Chan E.H.W. (2012). "ANP Model for Sustainable Building Energy Efficiency Retrofit (BEER) using Energy Performance Contracting (EPC) for Hotel Buildings in China", *Habitat International*, [Volume 37](https://doi.org/10.1016/j.habitat.2012.12.001), January 2013, Pages 104112. (Grade **A** journal) (<http://www.sciencedirect.com/science/article/pii/S0197397511001019>.)
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- 2) Wang A.Q., Chan EHW and Lang W. "Evaluation Framework for the Sustainability of LUC: A Case Study of Hong Kong in 2000-2010" *Urban Studies (A Journal)* (submitted for review Sept 2014)

Refereed conference paper (Selected publication)

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- 2) Chan EHW (2014) Urban Development in Hong Kong (Keynote Presentation), Second Expert Group Meeting on the State of Asian Cities 2014 Report, Invited by UNESCAP and UN-Habitat, Bangkok, Thailand, 24 - 26 March 2014. 1-15.
- 3) Chan EHW (2013) Sustainable Compact Cities for Human Settlements: Hong Kong (Keynote Presentation), HabiTechno International Seminar 2013, 11 Nov. 2013 Bandung, Indonesia, 1-53
- 4) Chan EHW (2013) Promoting Green Building and Way Forward for a Green Built Environment (Keynote Presentation), BEC EnviroSeries Conference, 22 November 2013, BEC, Hong Kong 1-66
- 5) Chan EHW (2013) Sustainable City and societies (城市与可持续社会) (Keynote presentation), The EU-China Urbanization Partnership- Guangzhou Forum (《中歐城鎮化夥伴關係》- 廣州論壇), invited by by China-Europa Forum (中欧社会论坛), 17 Nov. 2013, 1-35.

- 6) Chan EHW (2013) People and Governance for Sustainable Urban Development (Keynote Presentation), Sustainable Urban Systems Workshop, June 24, 2013 Ulsan, Korea, 1-45
- 7) Chan EHW (2013) Governance for Sustainable Urban Renewal, International Conference on China's Urban Transformation and Restructuring (Guangzhou 13-16 Dec-2013), School of Geography and Planning at Sun Yat-sen University, 1-42
- 8) Chan EHW (2013) **Challenges and Opportunities in China's Urbanization: Sustainable Compact City of Hong Kong** (Plenary paper), China- Australia Symposium 2013: sustainable I+urban Development- Challenge and Opportunities 21 Feb 2013. UniSA, Australia
- 9) Chan EHW (2012) **"Innovative. Entrepreneurial. Global" University Presidents Forum**, at the UTM University Presidents Forum, 6 May 2012, Malaysia 1-22.
- 10) Chan EHW (2011) Strengthening Innovation towards Sustainability: Initiatives in Sustainable Urban Development (The Hong Kong Polytechnic University, at the UTM University Presidents Forum, 25 March 2011, Malaysia, 1-48.
- 11) Chan EHW (2010) Policy and Measures needed from government to promote Building Energy Efficiency (BEE) In China, keynote paper presented in the US-China Workshop on Pathways toward Low-Carbon Cities, December 13-14, 2010, Hong Kong Polytechnic University, Hong Kong.
- 12) Chan EHW, (2010) **Sustainable Urban Renewal Project Assessment Model**, CRIOCM 2010 International Symposium on Towards sustainable Development of International Metropolis, 7-8 August 2010, Johor, Malaysia, 24-33
- 13) Chan EHW (2007) Healthy Buildings Research: Air Quality of Mass Housings in Hong Kong (Keynote Paper), International Conference on Environment and Health, 6-8 Dec 2007, Hong Kong, by The Hong Kong Tuberculosis, Chest and Heart Diseases Association and the World Association of Chinese Public Health Professionals, p.41.
- 14) Chan EHW (2007) Sustainable City Development in Hong Kong (in Chinese), Seminar on Innovation and Development of Cities (Keynote Paper), 19 April 2007, Huang Guang City Planning Dept., Huang Guang City, China.
- 15) Chan EHW (2006) Critical review of the development control framework for a dense urban environment in Hong Kong (in Chinese) (Keynote Paper, 2006 Mainland and Hong Kong Conference in Urumqi, China, ETWB and Ministry of Construction, China, 1-11.
- 16) Chan EHW (2001) An Annual Report of the Construction Industry of China Hong Kong 2000-2001, The 7th AsiaConstruct Conference, October 2001, India, pp.53. (Official delegates for HK)
- 17) Chan EHW (2000) Comparison of Environmental Management Philosophies, Seminar on Environmental Protection at Shenzhen New World Gardens, hosted by New World China Ltd 21 June 2000, Shenzhen, China, 6pp. (Invited Speaker)
- 18) Chan EHW (1998) Legal Framework for Private Sector Participation in Urban Renewal in Hong Kong, paper presented to International Conference for Sustainable Development and Urban Real Estate Market, 30 Oct.-1 Nov., 1998, Wuhan University, China Pp.17 (Invitation sponsored by HK Society of Asia Pacific Twenty-one)

Invited Conference papers: (selected publication)

- 19) Chan E.H.W. & Qian QK (2012) **Hong Kong Experience of Green Buildings Promotion – the challenges and way forward**, Indonesia Institute of Architect Research Seminar, 1 Aug 2012, Jakarta, Indonesia.
- 20) Chan E.H.W. & Qian QK (2012) **Green Buildings Promotion – Comparison between Hong Kong and Malaysia**, Malaysia Institute of Architect Research Seminar, July 2012, Kuala Lumpur, Malaysia
- 21) Chan E HW (2009) **Healthy Buildings Research in Hong Kong's Dense Urban Development**, in "Forum on Sustainable Urban and Building Development" on 22 August 2009, Faculty of Construction and Land Use, PolyU.
- 22) Chan E.H.W. & Lee GKL (2008) Building Defect Caused in Construction: its extent and impact in Hong Kong (Keynote Paper), The Hong Kong Institute of Surveyors – Building Surveying Division Building Surveyors Conference on "Cultural Changes in Building Maintenance", 27 September 2008, Hong Kong. P.1-2.
- 23) **Chan E.H.W.**, (2004) Research In Response to the Outbreak of SARS, Seminar on Building Dilapidation and Rejuvenation in Hong Kong, CityU, Hong Kong, 23 Sept 2004.
- 24) Baldwin ANB, **Chan E.H.W.**, Yeung N S Y & Law F. (2004) Research in Response to the Outbreak of SARS, A paper presented in the SARS Forum of Hong Kong May 2004, Hospital Authority, Hong Kong.

Other conference paper

- 1 Chan EHW (2012) Practical Completion n Building Contract, Seminar in Hong Kong Construction Arbitration. Centre, 5th May 2012, 1-34.
- 2 **Chan E.H.W.**, (2003) Impact of SARS on Housing Planning and Design, Seminar for Delegates from Changsha on Urban Development, China, The PolyU. 1-4.
- 3 **CHAN, E.H.**, (2003) Urban Renewal in Hong Kong Special Administrative Region, Seminar for Delegates from Changsha on Urban Development, China, The PolyU. 1-11.
- 4 **Chan E.H.W.** & Tang B.S. (1998) Statutory Framework for Urban Redevelopment and Renovation in Hong Kong, Proceedings of Symposium on Housing Reform and Development in China Mainland, Dec. 1998, Chongqing University, China, ISBN: 962-367-242-X, The Hong Kong Polytechnic University, 1998. Pp7.1-15.
- 5 Choy H.T. & **Chan E.H.W.** (1998), Introducing Private Sector Competitiveness Through Government Led Strategic Urban Design Approach, Proceedings of Symposium on Housing Reform and Development in China Mainland, Dec., 1998, Chongqing University, China, ISBN: 962-367-242-X, The Hong Kong Polytechnic University, 1998, 8.1- 17.
- 6 **Chan E.H.W.**, et al, (1996) Pilot Study Report on Global Comparison of Building Control Systems, A Report presented at the Fourth World Congress of Building Officials, Hong Kong, Nov., 1996, 13 pp.

Publication in policy or professional journal (selected publication)

- 1) Lee GKL & Chan EHW (2011) 影響高密度城市的城市更新因素：以香港為例 (Factors affecting high-density urban renewal: Hong Kong Case), 《城市观察》2011年第2期 (Urban Insight, No. 2), p.46-59 (in Chinese).

- 2) Lee, G.K.L. and Chan, E.H.W. (2010). An Empirical Study on the Design of Dense Urban Renewal Projects. *The HKIA Journal*, No. 57 (2010 1st issue), pp. 72-77. (May 2010) **(Received Best paper Award 2010-11, Research Category)**
- 3) **Chan E.H.W.** and Lee, G. K. L. (2006) Design-led Sustainable Urban Renewal Approach for Hong Kong. *The HKIA Journal*, 2nd Quarter, 46, pp. 76-81
- 4) Baldwin A. N. & **Chan E. H.** (2004) Fung Shui: A solution to Healthy Building?, *CII-HK Newsletter*, Vol.2(2), 4-5.
- 5) **Chan E.H.W.** and Ngao D. (2004) Administrative Mechanisms and Incentive Schemes for Conserving Built Heritage: a comparison of international experience, *The HKIA Journal*, (The Official Journal of the Hong Kong Institute of Architects), ISSN: 1028-4842, Issue No.40, 4th Quarter 2004, p.12-17.
- 6) **Chan E.H.W.** (2004) Learning through Touring, *The HKIA Journal*, ISSN: 1028-4842, Issue No.38, 2nd Quarter 2004, p.8.
- 7) **Chan E.H.W.** (2001) Urban Environment: An asset in many aspects, *The HKIA Journal*, ISSN: 1028-4842, Issue No.30 4th Quarter 2001, pp.10
- 8) (Wong W. S.) & **Chan E.H.W.** (2001) Quality Building Works in Hong Kong: A Research Report, *The HKIA Journal*, ISSN: 1028-4842, Issue No.28 2nd Quarter 2001, pp.20-25
- 9) Hui C.M. & **Chan E.H.W.** (2000) Impacts of Government Land Leases Conditions on Private Housing Market in Hong Kong, *The HKIA Journal*, ISSN: 1028-4842, 3rd Quarter 2000, Pp.20-24.
- 10) (Kwok, G.) & **Chan E.H.W.** (2000) Recent Developments in Mainland China: The Bidding Law, *HKIA Newsletter*, No. 11.2000. p.3.
- 11) **Chan E.H.W.** and Chan A.P.C. (1999) Managing construction projects in Hong Kong, *BOSS Magazine*, Delft University of Technology, The Netherlands, Issue 10, November 1999, pp.14-17 (Invited Paper).
- 12) Choy H.T. & **Chan E.H.W.** (1998) Urban Renewal Through Government Led Strategic Urban Design Approach, *The HKIA Journal*, ISBN: 1028-4842, Issue No.18 4th Quarter 1998, pp.84-93.
- 13) CHOY H.T. and **CHAN E.H.W.** (1998) Changes in Hong Kong Housing Market, *Ming Pao Monthly*, HKSAR 1st Anniversary Special Issue (in Chinese), July 1998.
- 14) **CHAN E.H.W.**, (1997) The Process and Legal Control of Property Development in Mainland China, *The HKIA Journal*, ISBN: 1028-4842, 1997, Issue No.13, 4th Quarter, 1997, pp.28-32.
- 15) **CHAN E.H.W.** & Tang B.S. (1997) Enforcing Planning Control in Hong Kong: Some Dubious Issues, *The HKIA Journal*, ISBN:1028-4842, 1997, Issue No.12, 3rd Quarter, pp.26-32.
- 16) **CHAN E.H.W.**, (1997) Climatic Building Design for Better Environment, *The HKIA Journal*, ISBN:1028-4842, 1997, 1st Quarter, pp.94-97
- 17) **CHAN E.H.W.**, (1997) Design for Climate and Environmental Protection, *Jian Zhu Ji Shu Ji She Ji*, (Journal of Chinese Building Technology Research Institute, Beijing), ISSN:1006-2661 (in Chinese), Issue No. 35, 1997(8), pp.127-130.

CREATIVE AND LITERARY WORKS, CONSULTING REPORTS AND CASE STUDIES

Engineering, architectural, graphic designs

1. **Chan E.H.W.** & Wong WS, Lim B., Cheung D., Ho DCH., Kwong KKK., Chau KW. Yau Y. Lau SSY. (2007) Quality of life for Public Housing with Emphasis on Health and Safety Issues, Special Architectural Award- Architectural Research, The Hong Kong Institute of Architects 2006 Annual Awards.

Computer software or system

1. Chan E.H.W (2008) The DRM Model: an interactive on-line publication at website: <http://drm.hkiac.org/>), hosted by Hong Kong International Arbitration Centre.
2. Chan EHW (2010) Interactive Teaching Resource: On-Line Case Study Resources for Teaching/Learning of Construction and Property Law, (<http://158.132.107.165/lawbook/html/t3.html>), host at multi-function e-AEC platform (<http://www.drm.hk/eAEC/>).

Consulting or contract research report (selected publication)

1. Edwin HW Chan, BS Tang, Lennon HT Choy, KS Wong and Mable MB Lok (2012) Reform of the Hong Kong Development Approval Process: Towards Sustainable Development, Bauhinia Foundation Research Centre, Hong Kong, pp67.
2. Yuen, P. , Lee N., Chan EHW, Lok, A. & Ho F. (2010), Analysis and Reporting of the Public Engagement Exercise of the Council for Sustainable Development: Building Design to Foster a Quality and Sustainable Built Environment, for HKSAR Government, by Public Policy Research Institute, The Hong Kong Polytechnic University, 129 pp.
- 3.
4. Yuen P., Lee N., Bereson R., **Chan E.H.W.**, Ngai, E. Lok A, (2008) Report on the Analysis of Views for the Stage 1 Public Engagement Exercise for the West Kowloon Cultural District, for West Kowloon Cultural District Authority, HKSAR Government, by Public Policy Research Institute of The Hong Kong Polytechnic University, 396 pp. (March 2010)
5. Lee N., Yuen P., **Chan E.H.W.**, Yuen KK, LO Ellen (2008) Final Report on Community Views and Aspirations on the Possible Future Land Uses for the Lok Ma Chau Loop: A Public Engagement Exercise, for HKSAR Government, by Public Policy Research Institute of The Hong Kong Polytechnic University, 40 pp.
6. Lee N., Yuen P., **Chan E.H.W.**, Zhang H Q, Yuen KK, (2008) Report on Report on Urban Design Study for the New Central Harbourfront Stage 2 Public Engagement Exercise, for HKSAR Government, by Public Policy Research Institute of The Hong Kong Polytechnic University, 150 pp.
7. Lee N., Yuen P., **Chan E.H.W.**, Zhang H Q, Yuen KK, Gould D. (2008) Report on the Public Engagement Exercise on the Recommendations of the Consultative Committee on the Core Arts and Cultural Facilities of the West Kowloon Cultural District, for HKSAR Government, by Public Policy Research Institute of The Hong Kong Polytechnic University, 101 pp.
8. Lee N., Yuen P., **Chan E.H.W.**, Zhang H Q, Yuen KK, Gould D. (2007) Report on "Independent Analysis and Reporting of the Public Viewing Exercise for the Tamar Development Project", for HKSAR Government, by Public Policy Research Institute of The Hong Kong Polytechnic University, 153 pp.
9. **Chan E.H.W.** (2005) Judicial Review of Retrospective approval of building plan by Building Department, Aug 2005, High Court Action No. 106 of 2005.

10. **Chan E.H.W. et.al.** (2002) Demand and Supply of Construction Personnel, Commissioned by the Works Bureau, HKSAR, July 2002, pp.61.
11. **Chan E.H.W.** and Choy H.T. (2002) Study on the Regulation of Estate Agency Work Relating to Commercial and Industrial Properties, Commissioned by Estate Agents Authority, HKSAR. March 2002, 90pp.
12. **Chan E.H.W.** (2000) Technical Report on The Accessibility of People with Disabilities in Public Housing Estates, Commissioned by The Equal Opportunities Commission HKSAR, March 2000. 78 Pp.
13. **Chan E.H.W.** (2000) Consultancy Report on The Accessibility of People with Disabilities in Public Housing Estates, Commissioned by The Equal Opportunities Commission HKSAR, April 2000. 37 Pp.
14. **Chan E.H.W. et.al.** (1999) Consultancy Report on Market Structure of the Ready Mixed Concrete Industry in Hong Kong, Commissioned by the Hong Kong Housing Authority, Nov. 1999, pp.100.

International Academic Leadership:

Journal editorship/Editorial Board member:

- Journal of Green Building (Editor)
- Journal of Construction Engineering (Associate Editor)
- Habitat International (Guest Editor/Editorial Board)
- Building Research Information (BRI) (Guest editor)
- Construction Management and Economics (Guest Editor)
- The ASCE Journal of Urban Planning and Development (Editorial Board)
- International Journal of Law in the Built Environment (Editorial Board)
- The Open *Urban Studies* Journal (Editorial Board)
- Sustainability (Editorial Board)
- Asian Dispute Review (Editorial Board)
- HK IA Journal (Editor)
- IJ of Construction Management (Editor)

Referees/Reviewer of Journals:

Referees for the following international refereed Journal:

- Land Use Policy
- Journal of Clean Production
- Applied Energy
- Transactions of the Institute of British Geographers
- Technological and Economic Development of Economy
- Urban Studies
- Cities
- Energy
- Psychological Reports
- Journal of Green Building
- The ASCE Journal of Construction Engineering and Management
- The ASCE Journal of Urban Planning and Development
- Construction Management and Economics
- International Journal of Project management
- Habitat International
- Journal of Construction Research
- Asia Pacific Building and Construction Management
- Journal Aquaculture Economics and Management (US-Australia)

- FACILITIES
- International Journal of Construction Management
- Decision Management
- Construction Law Journal
- Journal of Construction Engineering
- The Open *Urban Studies* Journal
- Sustainability
- ASCE Sustainability Engineering

Leadership of research Institutes/Groups

- Co-Chair, Session A of University-Government-Industry Forum on New Ways of Development for New Towns in Hong Kong, HK PolyU, 26 Aug 2014, Hong Kong.
- Leader, Lab. of Sustainable land Use, RISUD, PolyU.
- Coordinator of Task Group TG79 of the International Council for Research & Innovation in Building and Construction (CIB):
TG79 Task Group- Building Regulations and Control in Response to Climate Change (Joint Coordinator with Prof. H. Vischer)
- Commission Member of the International Council for Research & Innovation in Building and Construction (CIB):
- Secretary General (1999-2004), Vice-president (2004-2006), President (2007-2010) of The Chinese Research Institute of Construction Management (Main activities: Hold annual conference and published special issues journal and run a refereed journal)
- Conference Chairman, CRIOCM 2010 International Symposium on Towards sustainable Development of International Metropolis, 7-8 August 2010, Johor, Malaysia.
- Chairman, Min-symposium of Low Carbon Cities of the ICSUD, Hong Kong Polytechnic University 2011.
- Expert panel member, ESCAP, Environment and Development Division, United Nations , 2014-2015.
- Non-Panel Reviewer of RGC Public Policy Research (PPR) Funding Scheme, HKSAR.