

Henry Kwok Chuen LIU (廖國泉)

(henryliu263@hotmail.com)



Date of Birth: 26th April 1956

Specialization: Project Management, Civil Engineering, Expert Witness

Company:

- Independent Professional Engineer
- Adjunct Professor – Hong Kong University
- Dethon Engineering Engineering Ltd.(CCCC –FHDI)
- Consultant and Authorized Signatory (GIFW,SF,FDN)

Academic Qualifications: -BSc. (Hons) in Civil Engineering,
Loughborough University, UK ((1979), England

Professional Qualifications:

Fellow, Hong Kong Institution of Engineers,
Fellow, Institution of Civil Engineers,
Fellow, Institution of Structural Engineers,
Fellow, Chartered Institute of Highways and Transportation,
Fellow, Hong Kong Institution of Highways and Transportation,
Member, Chartered Institute of Arbitrators,
Member, Academy of Expert,
Registered Professional Engineer (Civil, Structural, Geot. LTE)
Registered Structural Engineer (Class 1) Mainland China,
Accredited Mediator (HKMAAL)
Adjunct Professor – Hong Kong University

CHKIE (2000)
FICE (2000)
FIStruct E (2000)
FCIHT (2002)
FHKIHT (2000)
MCI Arb, (2018)
MAE (2017)
RPE (1992)
RSE (PRC-Class 1) (2004)
2013
2017
AS (since 2017)

Authorised Signatory- Buildings Department (GIFW,FDN,SF)

Key Experience:

Henry is a chartered civil and structural engineer with some 40 years of experience in Hong Kong, UK, Singapore, Africa and China with a wide facet in the construction industry. He specializes in the management of infrastructure projects having worked on a number of mega projects in different parts of the world including the Channel Tunnel (UK) in the early nineties (£2 billion); Ting Kau Bridge in the mid-nineties (HK\$1.7 billion); Lok Ma Chau railway in the early twenties (HK\$5 billion) and the Singapore Downtown Line 3 in 2009 (Sg\$2.0 billion). As a dedicated and qualified professionals in many disciplines, Henry accepts nothing less than total and successful achievement of project objectives. His amicable personal attribute and tactful interpersonal skills enable him to create a harmonious working environment with colleagues.

Henry had held several senior positions with various organizations in his career path both as client, consultant and contractor. He was the consultant to an international specialized contractor currently involved with the 3RS for the HK International Airport. In the world of Alternative Dispute Resolution(ADR), Henry has been involved with a number of dispute cases acting an Expert Witness . He is a member of the MCI Arb as well as a practicing member of the Academy of Expert Witness (MAE) . He was also a member of the ADR Committee of the HKIE. Recently, he has become an “Accredited Adjudicator”, being a member of the Hong Kong Institute of Construction Adjudicators.

Currently, He is the Authorised Signatory for Dethon Engineering Ltd, Co which is a subsidiary of Fourth Harbour Design Institute(FHDI) under the conglomerate of CCCC. On a part time basis, he is the “Adjunct Professor” of the H.K. University involving the MSc course on a taught subject entitled “Design & Buildability of infrastructures projects”.

Employment record in chronological order :

- 2023-present** - **Authorised Signatory** under the Buildings Department for three categories ,namely GIFW,Foundation and Site Formation -Henry currently is the AS for Dethon Engineering Co. Ltd which is the subsidiary of the conglomerate under Fourth Harbour Design Institute -China Communication Construction Co. or commonly known as FHDI-CCCC
- 2016-present** - **Independent Professional Engineer** – Henry undertakes regular assignments as Expert witness on dispute cases in the construction industry as well as other professional duties.
Adjunct Professor at Hong Kong University- On a part time basis, Henry is involved in teaching a Master Degree course entitled “Design and Buildability” for infrastructure Projects. He also supervises a number of dissertation projects for MSc students.
- 2016-2022** - **Dong Ah Geological Engineering Ltd.** – Authorized Signatory (part-time) – Consultant/AS for Contract 3201 (HK\$4.9 billion) for the reclamation of the 3RS of the HK International Airport adopting a special construction method known as Deep Cement Mixing (DCM).
- 2014-2016** - China State Construction Engineering (HK) Ltd. – Technical Director Provided technical support to China State in Hong Kong on all aspects of technical issue as well as writing technical proposal on major projects.
- 2010-2014** - Mannings (Asia) Consultants Ltd. – Director
In charge of the company business in terms of business development, technical proposal for Government’s consultancy assignment as well as for contractors on construction contracts. Also took up two assignments for HKSAR as “Expert Witness”.
- 2007-2010** - Meinhardt Infrastructure & Environmental Ltd. (HK and Singapore)
- Technical Director
- Leading a team of 50 professional consisting of architectural, structural, civil transportation, electrical and mechanical for the detailed design of Downtown Line (DTL3) in Singapore; 9km with 6 CD stations, all underground.
- Project Manager for the widening of Castle Peak Road (HK\$2.6 billions) involving major slope excavation, reinforced earth R/W, bored-piles R/W for this dual carriageway over a distance of 12km (HK\$2.6 billions).
- 2004-2007** - Maunsell-Hyder Joint Venture (Route 8) – Senior Resident Engineer SRE for the construction of the Lai Chi Kok Viaduct (HK\$41.1 billions) which adopted a high level viaduct concept. Some 1,766 precast segments were clued together mostly at night using precast segmental balance cantilever method with the aim of a launching gantry which weighed some 924 tonnes and measured 172 metres long.
- 1999-2004** - Kowloon Canton Railway Corporation (KCRC) – Project Manager
In charge of Lok Ma Chau (LMC) Railway Spur Line which was a multi-disciplinary railway project (HK\$2 billions). It adopted a fast track management for the design and construction of this controversial project involving railway system, procurement, cost-control, programme and engineering.
- 1992-1999** - Binnie Consultants Ltd. – Senior Resident Engineer/Chief Engineer
Acting as Senior Design representative for Ting Kau Bridge on site for the overall coordination including highway alignment, foundation, retaining wall, roadworks and E&M works. With a contract sum of HK\$1.8 billions over a 34 months construction period as a turn-key

contract, this cable stay bridge consisted of three towers forming a major highways system spanning over the Rambler Channel with a combined length of 1177 metres and provides a navigational clearance of 60 metres.

- SRE for Kau Wan Reclamation (HK\$120 million) creating 6 Ha of land for the relocation of an existing shipyard in North Lantau. The reclamation involved 600,000 m³ of sand and 600m of seawall.

- SRE for Tai Po Water Treatment Works at Butterfly Valley Primary Services Reservoir which consisted of a network of deep shaft and tunnels for the inlet and outlet water supply system (HK\$1.0 billion).

1987-1992

- Transmanche Link (TML) Channel Tunnel Contractor, England – Senior Engineer

Responsible for the design liaison and quality control for the construction of the road, drainage and highways structures of the Terminus in Folkstone (HK\$5 billions)

1979-1987

- Binnie & Partners – Assistant Engineer/Engineer
Involving with a number of water supply and landslides projects.
(Chartered Engineer since 1983)

Published Papers

1. The opportunity for Alternative Dispute Resolution (ADR) in Hong Kong, Belt & Road Initiative, HKIE, August 2016.
2. The Challenge for the Construction of Castle Peak Road – International Road Summit (Beijing), 2008.
3. The Challenge for the Construction of the Lai Chi Kok Viaduct – International Conference on Bridge Engineering – Challenge in the 21st Century (2006) – Paper presented
4. “The Millennium Dragon” involving an Innovative Structure across Victoria Harbour – 2003 in the International Bridge Conference in Shanghai – (Paper presented)
5. The Saving of steel reinforcement for railways, highways and water-retaining structures using PFA – the paper was presented in a conference “Engineering Challenge into the next century” December 1999.
6. The Influence of Hydration Temperature in Highways and Water-retaining Structures: - HKIE transaction 1999.
7. “The Design and Construction for the Foundation of Ting Kau Bridge and Approach Viaducts” – Highways in the Next Century Conference in Hong Kong in November 1996.

Professional and Academic involvements in Hong Kong:

-HKIE – Executive	2002-2003
-HKIE – Council	1998-2003
-HKIE – Civil Division – Chairman (committee from 1995 leading to Chairman)	1995-2002
-HKIE – Civil Discipline Advisory Panel(committee from 1997 leading to Chairman)	1997-2007
-Visiting Lecturer with HK Polytechnic University (then HK Polytechnic) (taught subject was “Construction Management”)	1982-1987
-Visiting Lecturer with City University of HK (MSc) (taught subject as ‘Structural Steel Design for Buildings)	2004-2005
-Advisory Committee on the Appearance of Bridges & Structures in HK (ACABAS)	2001-2002
- Advisor to Chu Hai College of Higher Education in the Civil Engineering Department	2001-2016
-Member of the CITB and CWRB of the Construction Industry Council (CIC)	2012-2016
-Adjunct Professor in the Civil Engineering Department (HKU)	2016-present
-Management Committee of the Centre for Infrastructure and Construction Industry Development (CICID), (HKU)	2011-present
- Professional Examiner for ICE and HKIE in Civil and Structural Discipline	1994-present
-Member of the Disciplinary Tribunal Panel of the Builder’s Lifts and Tower Working Platforms (Safety), Cap 470	2014-2019