

Faculty



M. S. CHEUNG (張慕聖)

BSc *Chu Hai Coll*; MSc, PhD *Calgary*

Chair Professor, Head of Department, Co-Director of Institute for the Environment, and Director of Smart and Sustainable Infrastructure Research Center

Research Interests:

Finite element and finite strip methods; static and dynamic analysis of bridges and buildings; composite materials and fibre-reinforced polymers; reliability-based structural assessments; and durability of concrete structures.



Wilson H. TANG (鄧漢忠)

BSc, MS *Massachusetts Inst of Tech*; PhD *Stanford*

Chair Professor

Research Interests:

Risk, reliability and decision analysis of engineering systems; uncertainty modeling.



Tony R. EASTHAM (易東萊)

BSc *London*; PhD *Surrey*

Professor, Associate Vice-President for Research and Development, and President/CEO of HKUST R and D Corporation Ltd

Research Interests:

Advanced ground transportation; research and development policy issues.



Mohamed S. GHIDAOU (招捷達)

BEng, MSc, PhD *Toronto*

Professor

Research Interests:

Hydraulics, water resources and environmental fluid mechanics: shallow flows; wall shear and flow turbulence in unsteady flows; flow stability and its applications in pipe and surface water flows; numerical modeling of surface and closed conduit flows; leakage detection in pipes; sewer surcharging; Boltzman theory and hydraulics.



Kenny Chung-Sau KWOK (郭中秀)

BE, PhD *Monash*

Professor, and Director of CLP Power Wind/Wave Tunnel Facility

Research Interests:

Wind effects on building and structures; wind tunnel modeling; structural dynamics; vibration control; environmental fluid mechanics.



Christopher K. Y. LEUNG (梁堅凝)

BSc *Hong Kong*; MS *Univ of California, Berkeley*; PhD *Massachusetts Inst of Tech*

Professor, and Director of Advanced Engineering Materials Facility

Research Interests:

Construction materials; fiber-reinforced concrete; composite in civil engineering; composite micro-mechanics; fracture mechanics; optical fiber sensors.



Xiang-Song LI (李相崧)

BS *Tsinghua*; MS, PhD *Univ of California, Davis*

Professor

Research Interests:

Soil mechanics; soil dynamics; geotechnical earthquake engineering; constitutive modeling; computational mechanics; signal processing; instrumentation and control systems.



Zongjin LI (李宗津)

BE *Zhejiang*; MS, PhD *Northwestern*

Professor, and Associate Dean of Engineering

Research Interests:

Fiber-reinforced cementitious composites; durability of concrete; non-destructive test of infrastructure; using extrusion technique to develop new building products; functional material development; sustainable construction materials.



Charles W. W. NG (吳宏偉)

MSc *Southampton*; PhD *Bristol*

Professor, and Director of Geotechnical Centrifuge Facility

Research Interests:

Centrifuge modeling; numerical analysis and constitutive models; slope stability; soil-structure interaction problems such as piles, retaining walls, excavations and tunnels; unsaturated soils.



Yeou-Koung TUNG (湯有光)

BS *Tamkang*; MS, PhD *Univ of Texas, Austin*

Professor

Research Interests:

Water resources systems analysis; reliability and uncertainty analyses applied to hydrosystems engineering; stochastic modeling of rainfall-runoff process.



Hai YANG (楊海)

BSc *Wuhan*; MEng, DEng *Kyoto*
Professor

Research Interests:

Transportation economics; analysis, modeling and optimization of urban transportation systems.



Andrew K. C. CHAN (陳嘉正)

BS *National Taiwan*; PhD *Cambridge*
Adjunct Professor

Research Interests:

Analysis of structures and soils, sustainable design of urban infrastructure and buildings, and engineering education.

Yupo CHAN (陳雨浦)

BS, MS, PhD *Massachusetts*
Adjunct Professor

Research Interests:

Transportation, telecommunications, stochastic networks; spatial time-series; location-and-routing analysis; facility-location and land-use modeling.



Kwok-Leung CHUNG (鍾國樑)

BSc *Hong Kong*; MSc *Imperial Coll of Sc, Tech & Med*
Adjunct Professor

Research Interests:

Project implementation; contract management; construction site work; consultant practices; engineers in society; new town development; sustainable development; flood control and environmental protection.



Leonard J. ENDICOTT

BA, MA, PhD *Cambridge*
Adjunct Professor

Research Interests:

Numerical modeling and centrifuge modeling on ground engineering; tunnels; soil structure interaction; debris flow; consolidation of soft clays.



Delwyn G. FREDLUND

BE *Saskatchewan*; MSc, PhD *Alberta*
Adjunct Professor

Research Interests:

Unsaturated soil mechanics; transient seepage; slope stability; expansive soils; field instrumentation and monitoring; unsaturated soil properties; finite element numerical modeling of geotechnical problems.



William Chan-Gock KO (高贊覺)

BSc *Hong Kong*; MSc *Birmingham*
Adjunct Professor

Research Interests:

Biological filtration in water treatment; disinfection of final water and associated by-products; flood routings in rivers; rainfall patterns and catchment yields.



James Chi-Wang LAU (劉志宏)

MSc *Manchester and London*; MBA *Chinese Univ of Hong Kong*; PhD *London*
Adjunct Professor

Research Interests:

Construction law; construction management; dispute resolution; forensic investigation into structural and geotechnical failures.



Za-Chieh MOH (莫若楫)

BS *National Taiwan*; MS *Iowa State*; ScD *Massachusetts*; DTech *Asian Inst of Tech*
Adjunct Professor

Research Interests:

Soil behavior; soil stabilization; ground improvement for foundations, highways, airfield and earth dams; soft clay and lateritic soils; construction management.



Chun-Man CHAN (陳俊文)

BSc, MSc *Massachusetts Inst of Tech*; PhD *Waterloo*
Associate Professor

Research Interests:

Structural optimization of tall buildings; computer aided engineering; seismic performance-based design; wind effects on tall buildings; design of steel and composite structures.



Chih-Chen CHANG (張志成)

BSc *National Taiwan*; MS, PhD *Purdue*

Associate Professor, and Associate Director of Smart and Sustainable Infrastructure Research Center

Research Interests:

Structural health monitoring; damage identification; structural dynamics and measurement; earthquake and wind engineering; photogrammetric applications; signal processing and analysis.



Guanghao CHEN (陳光浩)

BAgricSc *Zhejiang Agric*; MEng, DEng *Kyoto*

Associate Professor

Research Interests:

Biological treatment processes; biosewer development; minimization of excess sludge in activated sludge processes; MBR processes; phosphorous adsorption.



Lambros S. KATAFYGIOTIS (簡達福)

DipCE *National Tech Univ, Athens*; MS, PhD *California Inst of Tech*

Associate Professor

Research Interests:

Structural dynamics; control and reliability; numerical simulation; computational stochastic mechanics; system identification; damage detection; random vibrations; earthquake and wind engineering.



Jun-Shang KUANG (鄺君尚)

BSc *South China Inst of Tech*; PhD *Hong Kong and Cambridge*

Associate Professor

Research Interests:

Design and analysis of structural systems; reinforced and prestressed concrete; tall building structures; earthquake-resistant design; experiment of large-scale concrete structures and components.



Kin-Man LEE (李建文)

BESc, PhD *Western Ontario*

Associate Professor

Research Interests:

Solid wastes recycling into lightweight geo-material (LGM); rubber soil technology; tunneling in soft ground; hydraulic filling and land reclamation; application of geosynthetics in engineering problems; numerical modeling in geotechnical engineering.



Hong-Kam LO (羅康錦)

BSc *Hong Kong*; MSc, PhD *Ohio State*
Associate Professor

Research Interests:

Transportation systems modeling; intelligent transportation systems; dynamic traffic assignment; traffic simulation; traffic signal control; traffic flow theory; traffic safety analysis.



Irene Man-Chi LO (勞敏慈)

BS *National Taiwan*; MS, PhD *Univ of Texas, Austin*
Associate Professor

Research Interests:

Innovative clay liners for waste disposal facilities; remediation of contaminated soils; chemical (hazardous) waste treatment; equilibrium and non-equilibrium pollutant transport in soils; permeable reactive barriers.



Chii SHANG (商啟)

BSc *National Taiwan*; MSc, PhD *Purdue*
Associate Professor

Research Interests:

Physico/chemical processes; environmental chemistry/instrumentation; disinfection processes/DBPs; heavy metal removal; subsurface contaminant transport/remediation.



Limin ZHANG (張利民)

BSc, MSc, PhD *Sichuan*
Associate Professor

Research Interests:

Pile foundations; embankments and slopes; multiphase flow; centrifuge modeling; geotechnical risk and reliability-based design.



Liang Y. LIU (劉亮雲)

BS *National Chiao-Tung*; MS, PhD *Michigan*
Adjunct Associate Professor

Research Interests:

Construction project planning and controls; information technology applications in construction; construction productivity analysis and improvement.



Yu-Hsing WANG (王幼行)

BSc, MSc *National Taiwan*; MSc, PhD *Georgia Inst of Tech*
Assistant Professor

Research Interests:

Stochastic resonance, non-linear dynamic effects, and friction; attenuation mechanisms in particulate media (damping); energy loss at the micro scale; characterization of material properties by nondestructive techniques (mechanical and electromagnetic waves); physical-chemical soil behavior; debris flow; particulate behavior of residual soils; aging and thixotropy of soils.



Xiangru ZHANG (張相如)

BS, MS *Nankai*; PhD *Univ of Illinois, Urbana-Champaign*
Assistant Professor

Research Interests:

Water and wastewater treatment process chemistry; emerging contaminant characterization and control; environmental sensors; drinking water security; environmental impact assessment.



Xueqing ZHANG (張學清)

BSc, MSc *Hohai*; PhD *Hong Kong and Alberta*
Assistant Professor

Research Interests:

Construction engineering and project management; infrastructure systems and facilities management; project procurement; computer-integrated project management; computer simulation; construction methods, innovation and constructability; value management; construction law and contracts; claims and disputes management; decision support systems; management science; engineering management; financial engineering.



Wei Chung HU (胡惟忠)

BA *Univ of California, Berkeley*; MS *Univ of California, Santa Barbara*;
PhD *South Australia*
Visiting Assistant Professor

Research Interests:

Adjustment computations, satellite geodesy and Hamiltonian mechanics, dynamical systems, symmetry groups in PDEs, engineering education with emphasis on implementation of e-mathematics (CAS/spreadsheet methods/VBA) and CG (compu-graphical solutions/animation).