

CURRICULUM VITAE

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BIOGRAPHY

PRIVATE INFORMATION

Year of Birth: 1974
Gender: Male
Marriage Status: Married

EDUCATION

2000 Ph.D., Geotechnical Engineering, Tsinghua University, Beijing, CHINA
2000 MEng, Geotechnical Engineering, Tsinghua University, Beijing, CHINA
1995 BEng, Hydraulic Engineering, Tsinghua University, Beijing, CHINA
1995 BEng, Environmental Engineering, Tsinghua University, Beijing, CHINA

EMPLOYMENT

2008 – PhD supervisor, Tsinghua University, Beijing
2004 – Deputy Director, Institute of Geotechnical Engineering, Tsinghua University, Beijing, CHINA
2003 – Associate Professor, Tsinghua University, Beijing, CHINA
2002 – 2003 Assistant Professor, Tsinghua University, Beijing, CHINA
2000 – 2002 Visiting Scholar, Post-doctoral fellow, Hong Kong University of Science and Technology, HKSAR, CHINA
1999 – 2000 Lecturer, Tsinghua University, Beijing
1996 – 1999 Teaching Assistant, Tsinghua University, Beijing

OVERSEAS EXPERIENCE

2012.04 ~ 2012.05: Visiting Associate Professor, Louisiana State University, USA;
2011.03 ~ 2011.04: Visiting Associate Professor, New Jersey Institute of Technology, USA;
2010.07 ~ 2010.08: Visiting Associate Professor, Durham University, UK;
2008.02 ~ 2008.03: Visiting Associate Professor, Durham University, UK;
2006.02 ~ 2006.03: Visiting Associate Professor, Ecole des Mines d'Albi – Carmaux, FR;
2005.07 ~ 2005.09: Visiting Associate Professor, The University of Nottingham, UK;
2004.09 ~ 2004.10: Visiting Associate Professor, Case Western Reserve University, USA;
2002.03 ~ 2002.04: Visiting scholar, LCPC-ENPC, Paris and Nantes, France;
1998.10 ~ 1998.11: Visiting Scholar, Kiso-Jiban Consultants Co., Ltd, Tokyo, Japan.

RECENT CONSULTING ACTIVITIES

2013 –	Shannxi Geological Survey Institute, Xi'an, China
2012 –	In-situ Solutions Ltd., Nanjing, China
2012 –	Chengde Geological Survey Institute, Hebei, China
2003 –	Geological Survey Corporation of Baitou Steel Group, Inner Mongolia, China
2010 – 2012	Safety evaluation of tailing dams, Zijin Mining Group, China
2008 – 2012	Remediation of groundwater, Beijing Municipal Government, China
2007 – 2010	Design of reservoir for Xilongchi pumped storage powerstation, State Power Group
2005 – 2008	Design of Safety analysis of Nouzhadu high rockfill dam, State Power Group
2004 – 2008	Safety analysis of Nouzhadu high rockfill dam, State Power Group, China
2003 – 2006	Safety analysis of Stage-II cofferdam for Three Gorges Project, TGP Group, China

AWARDS & HONORS

2013	State Award for Inventions (First-class), Chinese Central Government
2012	Best Theoretical-Oriented Paper, ASCE Environment and Water Resources Institute
2012	Outstanding Young Scholar, Chinese Society for Rock Mechanics and Engineering
2010	Excellent Individual (Teaching, Research and Service), Tsinghua University
2010	Educational Achievement Awards (Innovative Geotechnical Practice), Tsinghua University
2008	Educational Achievement Awards (Geo-environmental Course Development), Tsinghua University
2008	Excellence for Educational Software Development (Multimedia Course of Soil Mechanics), Tsinghua University
2007	New Century Excellent Talents in Chinese Universities, Ministry of Education
2007	Scientific Achievements Award, Tianjin Municipal government
2006	Educational Achievement Awards (Series Courses of Geotechnical Engineering), Tsinghua University
2006	Major Instructor, National Excellent Course (Soil Mechanics), Ministry of Education
2005	Beijing New Star in Science and Technology, Beijing Municipal Government
2004	Major Instructor, Beijing Excellent Course (Soil Mechanics), Beijing Educational Committee
2003	Excellent Teaching Team Awards (Soil Mechanics), Tsinghua University
2001	Science and Technology Achievements Award, Changjiang River Scientific Research Institute
1999	Excellent Teaching Assistant, Tsinghua University
1998	Guanghua Scholarship, Tsinghua University
1997	Tsinghua University Scholarship, Tsinghua University
1996	Guanghua Scholarship, Tsinghua University
1995	Honorable Excellent Undergraduate Student Medal, Tsinghua University
1994	Distinguished Student Prize, Tsinghua University
1993	Distinguished Student Prize, Tsinghua University
1992	Distinguished Student Prize, Tsinghua University
1991	Distinguished Student Prize, Tsinghua University

PROFESSIONAL AFFILIATIONS

- 2013 – Life Member of Southeast Asian Geotechnical Society (SEASG)
- 2013 – Member of American Chemical Society (ACS)
- 2012 – Member of American Society of Civil Engineers (ASCE)
- 2012 – Member of Technical Committee 307 - Sustainability in Geotechnical Engineering, ISSMGE
- 2011 – Chair of Committee for Young Geotechnical Engineers, Chinese Institution of Soil Mechanics and Geotechnical Engineering (CISMGE)
- 2011 – Vice-Chairman of Committee for Geo-Environmental Engineering, Chinese Institution of Soil Mechanics and Geotechnical Engineering (CISMGE)
- 2010 – Core Member of Beijing Society of Hydropower Engineering
- 2009 – Core Member of Technical Committee for Geotechnical Centrifuge Modeling, Chinese Hydraulic Society
- 2008 – Chair of Technical Committee on Soil Contamination and Remediation, Core Member of the Institution of Geo-Environmental Engineering, Chinese Society for Rock Mechanics and Engineering (CSRME)
- 2008 – Member of International Society for Rock Mechanics
- 2007 – Member of Asian Technical Committee 17 - Environmental Geotechnics, ISSMGE
- 2006 – Member of Technical Committee 215 - Environmental Geotechnics, ISSMGE
- 2004 – Member of International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE)

RESEACH ACTIVITIES

RESEARCH INTEREST

A. Geotechnical Engineering

Soft Ground Improvement: Electro-Kinetics Mechanism and Application, Vacuum Preloading
Seepage in Porous Media: Multi-scale modeling
Soil-Structure Interaction: Constitutive modeling, Physical testing
Practical Application: Dam Engineering, Offshore Engineering, Foundation Engineering

B. Geo-environmental Engineering

Contaminant Transport
Soil/Groundwater Remediation
Valorization of Solid Waste
Landfill Engineering

C. Research Methodology

Theoretical Analysis: Multi-field coupling model, Analytical solution
Physical Modeling: Multi-scale laboratory testing, Centrifuge modeling
Numerical Simulation: FEM software development

FUTURE RESEARCH PLAN

A. Geotechnical Engineering

Multi-phase Flow in Porous Media: Theory and micro-mechanism
Soft Soil Improvement: Mechanism and Technology

B. Geo-environmental Engineering

Innovative Soil/Groundwater Remediation Technology
Landfill Engineering: long performance of liner system

RESEARCH GRANTS

A. Principal Investigator

Received over RMB 20M in grants for independent research as Principal Investigator.

International Funding

- European Union: Asia-Link Geo-Environmental Engineering Training Programme in China, Project No. ASIALINK CN010, EUR300K, 2005-2007.
- UK Royal Society: International Scholar Incoming Visits (Host: Durham University), GBP4K, 2008.
- France Diplomatie: International Scholar Incoming Visits (Host: Ecole des Mines d'Albi), EUR5K, 2007.

Research Project from Chinese Funding Bodies

- National Natural Science Foundation of China (NSFC): Subsurface contamination and remediation, Project No. 513230014, RMB3M, 2014-2017
- National Natural Science Foundation of China (NSFC): Micro-mechanism of in-situ air sparging for groundwater remediation, Project No. 41372352, RMB800K, 2014-2017
- Ministry of Science and Technology: Application of Micro-bubble Technology for Groundwater Remediation, Project No. SKLHSE-KY-01, RMB1.5M, 2012-2014.
- Ministry of Science and Technology: Sub-project under National Key Basic Research Program

(Project No. 2012CB719800, Total budget RMB35M), “Long Performance of MSW Landfill Liner System”, Project No. 2012CB719804, (Co-PIs: Zhu, W and Hu, L), RMB5.6M, 2012-2015.

- National Natural Science Foundation of China (NSFC): Nanomechanics and Physics of the Interparticle Cohesion in Saturated and Unsaturated Cohesive Soils (Co-PI), Project No. 51128901, RMB200K, 2012-2013
- Tsinghua University: Mechanism and Application Electro-Osmosis Consolidation for Geo-Materials, Project No. 2010THZ02-1, RMB900K, 2010-2012.
- National Natural Science Foundation of China (NSFC): International Research Collaboration on Soil/Groundwater Remediation, Project No. 50910105067, RMB20K, 2010-2011.
- Ministry of Science and Technology: Microscopic Model and Centrifuge Modeling Verification of Air Sparging Remediation Technology (Co-PI), Project No. SKLHSE-2010-D1, RMB100K, 2010-2012.
- National Natural Science Foundation of China (NSFC): Theoretical Approach and Physical Modeling of Air Sparging for Groundwater Remediation, Project No. 50879038, RMB360K, 2009-2011.
- Ministry of Education: Numerical Simulation on Electro-Osmosis Consolidation, Project No. 109006, RMB100K, 2009-2010.
- Ministry of Education: New Century Excellent Talents in Chinese Universities, Research on geo-environmental engineering, Project No. NCET-070480, RMB500K, 2008-2010.
- Ministry of Science and Technology: Research Platform on Groundwater Research, Project No. SKLHSE-2008-KY-B3, RMB800K, 2008-2009.
- Ministry of Water Resources: Model Tests and Numerical Simulation on Air Sparging Technology for Soil/Groundwater Remediation, RMB40K, Project No. G07-04, 2008-2009.
- Beijing Municipal Government: Remediation Technology for Gasoline Contaminated land, Project No. 2008-093, RMB150K, 2008-2010.
- Ministry of Transportation: Centrifuge Modeling on Safety of Offshore Water-Intake Structure, Project No. 20070534, RMB600K, 2007-2009.
- Ministry of Education: Contaminant Transport in Sub-Tropic Areas from Municipal Solid Waste, RMB30K, 2006-2007.
- Beijing Municipal Government: Beijing New Star in Science and Technology, Project No. 2005A46, RMB80K, 2005-2008.
- Tsinghua University: Centrifuge Modeling and Numerical Simulation on Soil Remediation Process, Project No. JCqn2005008, RMB90K, 2005-2007.
- National Natural Science Foundation of China (NSFC): Failure Mechanism and Numerical Simulation on Submarine Soil-Structure System, Project No. 50379032, RMB250K, 2004-2006.
- National Natural Science Foundation of China (NSFC): International Research Collaboration on Geo-environmental Engineering, RMB75K, 2004-2006.
- National Natural Science Foundation of China (NSFC): Centrifuge modeling of LNAPL transport in unsaturated soil, Project No. 50209006, RMB210K, 2003-2005.
- Ministry of Education: Geo-Environmental Engineering Research Fund, RMB20K, 2003-2004.
- Tsinghua University: Soil Contamination Process and Remediation Technology, RMB50K, 2002-2004.
- Tsinghua-HKUST Collaborative Project: Centrifuge Modeling of LNAPLs transport in Subsurface and Soil/Groundwater Remediation Technology, HKD130K, 2002-2003.

B. Cooperative Group Research Grants

- Chinese Ministry of Science and Technology (MOST): Environmental Impact Assessment of Large Dams along Yangtze River, (PI: Zhou, J), RMB1.6M, 2012-2014.
- Chinese Ministry of Science and Technology (MOST): Environmental Impact Assessment of Large Dams along Yangtze River, (PI: Zhou, J), RMB150K, 2012-2014.

- Chinese Academy of Sciences (CAS): Development Strategy of Hydraulic Engineering Discipline (PI: Zhang, C), RMB300K, 2012-2014.
- National Natural Science Foundation of China (NSFC): Development Strategy of Hydraulic and Oceanic Engineering (PI: Li, Q), Project No. 50949009, RMB150K, 2009-2011.
- Ministry of Water Resources: Eco-Hydrology Change and Water Resources Management Countermeasure (PI: Yang, D), Project No. 200801012, RMB2.8M, 2008-2011.
- USNSF-NSFC Joint Seminar on Geotechnical Earthquake Engineering (PI: Zeng, X at CWRU USA), 2003-2005.
- Hong Kong – France Collaborative Project: Pollutant migration in soils: In flight instrumentation and scaling laws for centrifuged small-scale models (PI: Lo, IMC at HKUST), HKD28K, 2001-2002.
- National Natural Science Foundation of China (NSFC): Large Deformation Theory for Saturated Sand after Earthquake Liquefaction (PI: Zhang, J), Project No. 59979012, RMB200K, 2000-2002.
- Hong Kong RGC: Investigation of Subsurface Contamination and the Effectiveness of Remediation Technologies Using Geotechnical Centrifuge Techniques (PI: Lo, IMC at HKUST), HKD531K, 2000-2002.
- Hong Kong RGC: Accelerated Inorganic Contaminant Transport through Low Permeability Soil Materials (PI: Lo, IMC at HKUST), HKD747K, 2000-2002.
- China-Japan Collaborative Project: Advanced Geotechnical Engineering (PI: Pu, J), JPY8.4M, 1997-2000.

C. Research Grants from Industry

- Kunming Mining Corporation: Safety Analysis for Yuhezhai Mining Tailings, RMB1.6M, 2014-2015.
- Xinjiang Ashele Mining Corporation: Mechanical Characteristics of Mining Tailings, RMB250K, 2011-2012.
- Yunnan Jinding Mining Corporation: Safety of Jinding Tailing Dam for Copper Mining, RMB300K, 2009-2010.
- Tangshan Steel Group: Numerical Simulation on Seepage and Dynamic Analysis of Sijiaying Tailing Dam, RMB450K, 2005-2006.
- National Power Group: Key Technology on Design of High Rock-Earth Fill Dams, RMB1.6M, 2004-2006.
- National Power Group: Safe Analysis on Xilongchi Concrete-Faced Rockfill Dam, RMB170K, 2004-2005.
- Baotou Steel Group: Safety Analysis of Baogang Tailing Dam, RMB57K, 2003-2004.
- National Power Group: Structural Safety Analysis on Sanbanxi Concrete-Faced Rockfill Dams, RMB840K, 2003-2004.
- National Power Group: Structural Safety Analysis on Cofferdam of Xiluodu Hydraulic Power Station, RMB280K, 2003-2004.
- National Power Group: Stress-Strain Analysis on Nuozhadu High Rockfill Dam and Research on Mechanical Characteristics of Core Materials, RMB545K, 2002-2003.
- Three Gorges Group: Safety Analysis on Second-Phase Cofferdam of the Three Gorges Project, RMB100K, 1998-2000.

TEACHING ACTIVITIES

Courses Taught at Tsinghua University

1. 2003 ~ Now Soil Mechanics (Credit: 3, 48 hours)
2. 2004 ~ Now Geo-environmental Engineering (Credit: 2, 32 hours)
3. 2011 ~ Now The Earth and Human Environment (Credit: 2, 32 hours)
4. 1996 ~ 1999 Foundation Engineering (Credit: 2, 32 hours)
5. 1996 ~ 1999 Laboratory and In-situ Testing of Soils (Credit: 0.5, 8 hours)

Professional Training Courses for Engineers

2003 ~ 2006 Soil Mechanics and Geotechnical Engineering (64 hours each time)

2005 ~ 2011 Geotechnical Engineering (80 hours each time)

Web-based Courses (Major developer)

Web-based Undergraduate Courses developed at Tsinghua University

1. Soil Mechanics (48 hours)
2. Urban Water Environment (32 hours)
3. The Earth and Human Environment (32 hours)

Web-based Postgraduate Courses developed at Tsinghua University

4. Geo-environmental Engineering (32 hours)
5. Landfill Design and Management (32 hours)
6. Landfill Geotechnics (16 hours)

Web-based Training Courses for Professional Engineers

7. Soils Remediation Technology (32 hours)
8. Solid Waste Landfill Engineering (16 hours)
9. Environmental Geotechnics (16 hours)
10. Environmental Impact Assessment (16 hours)
11. Solid Waste Valorization (8 hours)
12. Sustainable Waste Management (8 hours)

RESEARCH STUDENTS SUPERVISION

Independently supervised research students

Student	University	Dissertation / Thesis Title	Degree	Date of Completion
HAO, Rongfu	Tsinghua University	Geotechnical Centrifuge Modeling and Numerical Analysis of LNAPLs transport and removal process	MPhil	2004
XING, Weiwei	Tsinghua University	Study on Migration Behavior of LNAPLs in Soils	MPhil	2005
MA, Jie	Tsinghua University	Mechanical Behavior of Interfaces in High Earth-core Rockfill Dam	MPhil	2006
DING, Jinwei	Tsinghua University	Study on Response of Marine Clay to Cyclic Loading	MPhil	2006
YANG, Yuanyuan	Tsinghua University	Survey of Regulations on Sediment Treatment and Experiments on Treatment of Dredged Sediment	MPhil	2007
HONG, Heqing	Tsinghua University	Study on Electrical Phenomenon in Soils and Experiment on Electro-osmosis in clays	MPhil	2007
WU, Zhaoqun	Tsinghua University	Numerical Modeling of NAPLs transport in the soil	MPhil	2008
ZHAO, Min	Tsinghua University	Study on safety of offshore water-intake structure using centrifuge modeling technique	MPhil	2009
LIU, Yan	Tsinghua University	Physical Modeling on Air Sparging Technique	MPhil	2009
WU, Weiling	Tsinghua University	Theoretical model and Numerical Simulation of Electro-osmotic Consolidation on Soft Clay	MPhil	2010
WANG, Jian	Tsinghua University	Numerical Modeling of Groundwater Remediation by Air Sparging	MPhil	2011
DU, Jianting	Tsinghua University	Physical Modeling on Air Sparging Technique	MPhil	2011
HU, Baichun	Tsinghua University	Reinforcement of Rock Slope of Suofengying Hydropower Station	MEng	2013
LIU, Tingfa	Tsinghua University	Centrifuge modeling of Contaminant Transport through MSW Landfill Liners	MPhil	2014 (Expected)
LI, Hengzhen	Tsinghua University	Micro-nano Bubble Technology for Groundwater Remediation	PhD	2014 (Expected)
WU, Hui	Tsinghua University	Electro-Osmotic Consolidation: Analytical Theory, Model Tests, and Application	PhD	2015 (Expected)
ZHANG, Pengwei	Tsinghua University	Long-term Performance of MSW Landfill Liners	PhD	2016 (Expected)
XIA Zhiran	Tsinghua University	Innovative Groundwater Remediation Technology	PhD	2017 (Expected)

Co-supervised students

Student	University	Dissertation / Thesis Title	Degree	Date of Completion
GAO, Shengyan	New Jersey Institute of Technology, USA	Micromechanical Study of Two-Phase Flow During Air Sparging	PhD	2012
PASHAL, Amin	Amirkabir University of Technology, IRAN	Centrifuge Modeling of NAPLs Transport and Remediation Process	PhD	2012
ÅBERG, Henrietta	KTH, Sweden	Seepage Analysis of Sijjaying Tailing Dams	MSc	2012
GONZALES, Valentina	KTH, Sweden	Safety Analysis of Sijjaying Tailing Dams	MSc	2012
GUNNTEG, Marcus	KTH, Sweden	Environmental Impact Assessment of Ashele Tailing Dams	MSc	2013
HOLMQVIST, Marcus	KTH, Sweden	Strain-Stress Analysis of Ashele Tailing Dams	MSc	2013
YANG, Yating	Tsinghua University	Using Solid Waste as Landfill Liners	MPhil	2013
GONG, Meng	Tsinghua University	Interaction of MSW Landfill Leachate and Liners	MPhil	2014 (Expected)
PAN, Shulei	Tsinghua University	Effect of geological heterogeneity on contaminant transport process	MPhil	2015 (Expected)
LIN, Fei	Hefei University of Technology, China	In-situ Soil/Groundwater Bioremediation Technology using Micro-nano Bubbles	PhD	2015 (Expected)

PUBLICATIONS

. Peer Reviewed Journal Papers (in English)

1. Pasha A Y, **Hu L**, Meegoda J N. Numerical Simulation of LNAPL Movement in a Variably Saturated Soil with Secondary Flow. **Canadian Geotechnical Journal**, 2014, Revision submitted.
2. **Hu L**, Meegoda J, Li H, Du J, Gao S. Study on Mechanism of Air Sparging using Geotechnical Centrifuge. **Journal of Environmental Engineering** ASCE, 2014, Revision submitted.
3. Li H, **Hu L**(Corresponding author), Song D, Lin F. Characteristics of Micro-nano Bubbles and Potential Application in Groundwater Bioremediation. **Water Environment Research**, 2013, Accepted.
4. **HU Liming**, WU Hui. Mathematical Model of Electro-osmotic Consolidation for Soft Ground Improvement. **Geotechnique**. 2014, 64(2): 155-164.
5. Li H, **Hu L**(Corresponding author), Song D, Al-Tabbaa A. Transport behavior of micro-nano bubbles in subsurface and potential application for groundwater remediation. **Int. J. Environ. Res. Public Health** 2014, 11, 473-486.
6. Tan, X., Hu, L., Reed, A. H., Furukawa, Y., & Zhang, G. Flocculation and particle size analysis of expansive clay sediments affected by biological, chemical, and hydrodynamic factors. **Ocean Dynamics**, 2014, 64(1), 143-157.
7. Dong WX, **Hu LM**, Yu YZ, Lv H. Comparison between Duncan and Chang's EB model and the generalized plasticity model in the analysis of a high earth-rockfill dam. **Journal of Applied Mathematics**, 2013, Article ID 709430, <http://dx.doi.org/10.1155/2013/709430>.
8. Li HZ, **Hu LM**(Corresponding author), Xia ZR. Impact of groundwater salinity on bioremediation enhanced by micro-nano bubbles. **Materials**, 2013, 6, 3676-3687.
9. Gao SY, Meegoda JN, Hu LM(Corresponding author). A dynamic two-phase flow model for air sparging. **International Journal for Numerical and Analytical Methods in Geomechanics**, 2013, 37(12): 1801-1821.
10. Zhang J, Hu LM, Pant R, Yu, Wei, Zhang. Effects of interlayer interactions on the nanoindentation behavior and hardness of 2:1 phyllosilicates. **Applied Clay Science**, 2013, 80-81: 267-280.
11. Wu H, **Hu LM**(Corresponding author). Analytical solution for axisymmetric electro-osmotic consolidation. **Geotechnique**. 63(12): 1074 -1079.
12. Wu H, **Hu L**(Corresponding author). Numerical model of soft ground improvement by vertical drain combined with vacuum preloading. **Journal of Central South China University**, 2013, 20(7): 2066-2071.
13. Liu Xiaoli; **Hu Liming**; Wang Enzhi; Xue Qiang. Study on Landfill Leachate Plumes with coupled Liquid-Solid Model. **Disaster Advances**, 6(7): 51-57.
14. Wu H, **Hu LM**(Corresponding author). Discussion of "Numerical assessment of equivalent diameter equations for prefabricated vertical drains". **Canadian Geotechnical Journal**, 2013, 50(7): 801-804.
15. Pasha AY, **Hu LM**, Meegoda JN, Ebadi T. Back-Calculated Soil–Water Characteristic Curve From Fluid Flow Data. **ASTM Geotechnical Testing Journal**, 2013, 36(3): 301-309.
16. Pasha AY, Aflaki E, **Hu LM**(Corresponding author), Meegoda JN. Effect of Soil Fabric on Transport of a LNAPL through Unsaturated Fine Grained Soils: A Centrifugal Model Study. **Soil and Sediment Contamination**, 2013, 22(2): 223-240.
17. Gao SY, Meegoda JN, **Hu LM**(Corresponding author). Simulation of Dynamic Two-phase Flow during Multistep Air Sparging, **Transport in Porous Media**, 2013, 96: 173-193.
18. Gao SY, Meegoda JN, **Hu LM**(Corresponding author). Two Methods for Pore-Network of Porous Media. **International Journal for Numerical and Analytical Methods in Geomechanics**, 2012, 36(18): 1954-1970.
19. WU Hui, **HU Liming**(Corresponding author). Analytical and Numerical Solutions for Vacuum Preloading Considering a Radius Related Strain Distribution. **Mechanics Research**

Communications, **Mechanics Research Communications**, 2012, 44: 9-14.

20. **HU Liming**, WU Weiling, WU Hui. Theoretical and numerical model of electro-osmosis consolidation in soft clay. **Geotechnique**, 2012, 62(6): 537-541.
21. Pashal A Y, **Hu LM**, Meegoda J N, Aflaki E, Du J. Centrifuge modeling of in-situ surfactant enhanced flushing of diesel contaminated soil. **ASTM Geotechnical Testing Journal**, 2011, 34(6): 623-633.
22. **HU Liming**, MEEGODA J, DU Jianting, GAO Shengyan, WU Xiaofeng. Centrifugal Study of Zone of Influence during Air-Sparging. **Journal of Environmental Monitoring, RSC**, 2011, 13 (9), 2443-2449.
23. Meegoda JN, **Hu LM**. A Review of Centrifugal Testing of Gasoline Contamination and Remediation. **Int. J. Environ. Res. Public Health** 2011, 8, 3496-3513.
24. Gao Shengyan, Meegoda J N, **Hu Liming** (Corresponding author). Microscopic Modeling of Air Migration during Air Sparging. **Journal of Hazardous, Toxic, and Radioactive Waste**, ASCE, 2011, 15(2): 70-79. [ASCE-EWRI Best Paper Award]
25. Meegoda J. N., Gao S, Al-Joulani N., **Liming Hu**. Solid waste and ecological issues of coal to energy. **Journal of Hazardous, Toxic, and Radioactive Waste**, ASCE, 2011, 15(2): 99-107.
26. **Hu Liming**, Wu Xiaofeng, Liu Yan, Meegoda J N, Gao Shengyan. Physical Modeling of Air Flow during Air Sparging Remediation. **Environmental Science and Technology, ACS**, 2010, 44(10): 3883-3888.
27. **HU Liming**, ZHAO Min, PU Jialiu. Centrifuge modeling of an offshore water-intake project under ice loading. **Applied Ocean Research**, 2010, 32(1): 49-57.
28. **Hu Liming**, Zhang Bingyin, Ma Jie. Mechanical characteristics for interfaces between granular materials. **Mechanics Research Communications**, 2010, 37(1): 42-46.
29. **Hu Liming**, Ding Jinwei, Liu Haixiao. Mechanical Behavior of Marine Clay under Wave Loading. **International Journal of Offshore and Polar Engineering**. 2010, 20(1): 72-79.
30. Dawson A, Boothroyd P, Ma J and **HU Liming**. Two-dimensional numerical simulation of groundwater contamination in the highway environment, **International Journal of Pavement Engineering**, 2009, 10(4): 265-276.
31. Zhang Bingyin, Yu Yuzhen, Fu Jian, **HU Liming**. Simple Shear Test for Interface between Two Granular Materials, **Geotechnical Testing Journal, ASTM**, 2008, 31(3): 252-260.
32. **Hu Liming**, Lo IMC, Meegoda JN. Numerical analysis and centrifuge modeling on LNAPLs transport in subsurface system. **Progress in Natural Science**, 2006, 16(4): 416-424.
33. **Hu LM**, Lo IMC, and Meegoda NJ. Centrifuge Testing of LNAPL Migration and Soil Vapor Extraction for Soil Remediation. **Practice Periodical Hazardous, Toxic, and Radioactive Waste Management**, ASCE. 2006, 10(1): 33-40.
34. Lo IMC, **Hu L. M.**, and Meegoda, N. J. Feasibility Study of Using Centrifuge for Investigation of LNAPL Migration in Unsaturated Soils. **Soil and Sediment Contamination, AHA**, 2005, 14(1), 85-103.
35. Lo Irene M. C., Zhang Jianhong, **HU Liming**. Centrifuge Modeling of Cadmium Migration in Saturated and Unsaturated Soils, **Soil and Sediment Contamination, AHA**, 2005, 14(5), 417-431.
36. **HU Liming**, PU Jialiu. Testing and Modeling of Soil-structure Interface. **Journal of geotechnical and geo-environmental Engineering**, ASCE, 2004, 130(8): 851-860.
37. Lo IMC, **Hu LM**. Centrifuge Modeling of LNAPLs Transport In Unsaturated Soils. **Journal of Geotechnical and Geo-environmental Engineering**, ASCE, 2004, 130(5): 535-539.
38. Lo IMC, **Hu LM**. Long-term migration of light nonaqueous-phase liquids in two unsaturated soils: Clayey silt and fine sand. **Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management**, 2004, 8(4): 228-237.
39. Lo IMC, Zhang JH, **Hu LM**, and Shu SZ. Effect of Soil Stress on Cadmium Transport in Saturated Soils. **Practice Periodical of Hazardous, Toxic and Radioactive Management, ASCE**, 2003, 7(3): 170-176.

40. **Hu Liming**, PU Jialiu. Application of Damage Model for Soil-structure Interface, **Computers and Geotechnics**, 2003, 30(2): 165-183.
41. Zhang Jianhong, **Hu Liming**, Pu Jianliu, Ying Kunting, Behavior of Plastic Concrete Diaphragm and Walls in Three Gorges Project, **Tsinghua Science and Technology**, 1999, 4(1): 1367-1370.

D. Invited Keynote Lectures

1. Electro-Osmotic Consolidation: Theory and Practice. **Huangwenxi Lecture**, Beijing. 2013. (In Chinese)
2. Geo-environmental Engineering: Past, Present and Future. **National Conference for Site Investigation**, Kunming. 2013. (In Chinese)
3. Numerical Simulation and Physical Modeling of Subsurface Contamination and In-situ Remediation. **The 1st Chinese National Conference on Multi-field Coupled Problems of Geo-materials and Environmental Geotechnics**. Hangzhou. 2012.12. (In Chinese)
4. Model tests and Numerical Simulation on Air Sparging Remediation. **The 3rd Chinese National Conference on Geo-Environmental Engineering and Geosynthetics**, Shanghai, 2011.11. (In Chinese)
5. Groundwater Contamination and Remediation. **International Workshop on Geo-environmental Engineering**, Wuhan, March 18-20, 2009. (in English)
6. Centrifugal Modeling of Gasoline Contaminated Sites: Pollutant Transport and Remediation, **Int. Symp. on Geoenvironmental Eng., ISGE2009**, 2009, Hangzhou, China. (In English)
7. Soil Contamination and Remediation Technology. **The 2nd Chinese National Conference on Geo-Environmental Engineering and Geosynthetics**, Changsha, 2008.11. (In Chinese)

E. Refereed International Conference Proceedings Papers (in English)

1. **HU Liming**, WU Hu, Wen Qingbo. Electro-osmotic consolidation: laboratory tests and numerical simulation. **The 18th International Conference for Soil Mechanics and Geotechnical Engineering, Paris**, France, 2013.09.
2. Tingfa LIU, Hui WU, Qingbo Wen, **Liming HU**. Numerical study of effect of contact condition on the performance of composite liner. **The 5th International Young Geotechnical Engineers' Conference (5IYGEC)**, August, 2013, Paris, France
3. Wu H, **Hu LM**. Analytical and Numerical Model of Electro-osmotic Consolidation for Soft Soil Improvement. **Geo-Congress 2013**, GSP 231, pp. 2114-2123.
4. Meegoda JN, **Hu L**. Centrifugal modeling of soil contamination and remediation. **Keynote Lecture, The 3rd International Conference on Geotechnical Engineering**, ICGE'13, 2013.02, Hammamet, TUNISIA. (Presented by Meegoda)
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10. YANG Yating, WEN Qingbo, **HU Liming**. Experimental Study on Application of Industrial Waste in Landfill Liner. **ASCE GeoCongress2012**, California, USA. 3881-3890.
11. WU Hui, **HU Liming**. Theoretical analysis and numerical simulation of vacuum preloading in

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 21. **HU Li-ming**, HONG Heqing, WU Weiling. Experimental Study of Electro-Osmosis in Kaolin Clay. **The International Symposium on Geo-Environmental Engineering for Sustainable Development**, Xuzhou, Oct 22-24, 2007.
 22. Hong, H.Q. and **Hu, L.M.** Experimental Study of Electro-Osmosis by Reversing Polarity in Kaolin Clay. **The 1st Sri Lankan Geotechnical Society (SLGS) International Conference on Soil and Rock Engineering**, Colombo, August 7-11, 2007.
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29. Wen Qingbo, **Hu Liming**. Solid Waste Treatment in China. *The 1st International Conference on Waste Treatment*. May 17 ~21, 2005, Albi, France.
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F. Peer Reviewed Chinese Journal Papers

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3. LIU Tingfa, ZHANG Pengwei, WEN Qingbo, **HU Liming**. Numerical study of performance of anti-seepage liner of modern landfill. *Chinese Journal of Geotechnical Engineering*, 2013, 35(S1): 275-281.
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8. LIU Tingfa, ZHANG Pengwei, **HU Liming**. Numerical Model Study on Working Performance of Seepage-proof Liner in Sanitary Landfill. ***Journal of Disaster Prevention and Mitigation Engineering***. 2012, 32(5): 617-623.
9. JIA Hui, WU Xiaofeng, **HU Liming**, LIU Peibin. In situ Experimental Research on Natural Attenuation of Oil Pollutants in a Gas Station. ***Environmental Science***, 2012, 33(1): 163-168.
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 35. Yu Yuzhen, Xie Liquan, Zhang Bingyin, **Hu Liming**. Influence of weak rock on stress-deformation of auxiliary dam 1 # of Xilongchi upper reservoir. **Journal of Hydroelectric Engineering**, 2006, 15(6): 39-44.
 36. Xing Weiwei, **Hu Liming**, Mu Feng, et al. Image collecting and processing system in centrifuge test. **Experimental Technology and Management**, 2005, 22(2): 37-42.
 37. Hao Rongfu, **Hu Liming**, Xing Weiwei. Centrifuge modelling of removing volatile contaminants in soils. **Rock and soil Mechanics**, 2004, 25(7): 1037-1040.
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 46. **Hu, L.**, and Pu, J. 3-D FEM analysis on Phase-II cofferdam of Three Gorges Project. **Journal of Tsinghua University**, 2001, 41(4-5): 240-243.
 47. **Hu, L.**, and Lo, I. M.-C., Zhang, J., and Pu, J. Application of Centrifuge Modelling technique in geo-environmental engineering. **Soil and Environmental Science**, 2001, 10(4): 87-91.
 48. **Hu, L.**, and Pu, J. FEM Analysis on Cutoff Walls of Second Stage Cofferdam in TGP. **Hydraulic and Hydroelectric Technology**, 1999, 30(5): 64-66.

G. Books

1. National Natural Science Foundation of China. Development Strategy Research of Hydraulic and Oceanic Engineering, Chapters 1&8, 2011, Science Press, Beijing, China. (In Chinese)

H. Proceedings Edited

1. Hu LM, et al. (Eds): State-of-the-Art in Geomechanics and Geoengineering, 2013, Wuhan University Press, Wuhan, China (In Chinese).
2. Han BP, Hu LM. (Eds). Proceedings of International Symposium on Geo-Environmental Engineering for Sustainable Development, Xuzhou, Oct 22-24, 2007. (In English)
3. Reddish D, Hu L, Stace R. (Eds). Geo-Environmental Engineering, London, UK, IOM press, 2007.05. (In English)
4. Co-Editor, The 9th National Conference on Soil Mechanics and Geotechnical Engineering, October 2003, Beijing, China (In Chinese).

A. Patents

1. HU Liming, SONG Dejun, LI Hengzhen (2012). In-situ groundwater remediation technology using micro-nano bubbles. PCT Patent # PCT/CN2013/000062
2. HU Liming, SONG Dejun, LI Hengzhen (2012). Enhanced groundwater remediation technology using micro-nano bubbles. PCT Patent # PCT/CN2013/000063
3. HU Liming, DING Jinwei, LIU Haixiao (2007). Compute-based bender elements system, Chinese Patent # CN200710063498.6
4. HU Liming, WU Weiling, WU Zhaoqun (2010). A method measuring the hydraulic conductivity of soils based on electro-osmosis. Chinese Patent # CN201010122680.6
5. HU Liming, WU Hui (2011). Bi-directional electro-osmotic consolidation facility. A method measuring the hydraulic conductivity of soils based on electro-osmosis. Chinese Patent# CN201110299860.6.
6. WU Hui, HU Liming, LUO Weitao (2012). A consolidation facility combining vacuum preloading and electro-osmosis. Chinese Patent # 201210006833.0
7. HU Liming, SONG Dejun, LI Hengzhen (2012). In-situ groundwater remediation technology using micro-nano bubbles. Chinese Patent # 201210041283.5
8. HU Liming, SONG Dejun, LI Hengzhen (2012). Enhanced groundwater remediation technology using micro-nano bubbles. Chinese Patent # 201210041355.6
9. HU Liming, LI Hengzhen (2012). Observation system for micro-nano bubbles movement in porous media. Chinese Patent # 201210048560.X
10. LI Hengzhen, HU Liming (2012). Observation system for micro-nano bubbles movement in water. Chinese Patent # 201210048458.X
11. HU Liming, LI Hengzhen, LIU Yan, DU Jianting (2012). Physical modeling system for groundwater air-sparging remediation technology. Chinese Patent # 201210048430.6

B. Software

1. HU Liming, WU Zhaoqun (2009). GUI for NAPL migration process. Software # 2009SRBJ6658.
2. HU Liming, WU Zhaoqun (2009). GUI for displacement analysis by digital images. Software # 2009SRBJ6669
3. HU Liming, MU Feng (2012). Image collection and analysis of contaminant transport in porous media. Software # 2012SR048762

SERVICE AND OUTREACH ACTIVITIES

National Service

- 2011 - 2014 Academic Secretary, The Strategy Research Program on Hydraulic Science and Engineering, National Academy of Sciences, China.
- 2009 - 2011 Academic Secretary, The Strategy Research Program on Hydraulic and Oceanic Engineering, National Natural Science Foundation of China.

University Service

- 2012 - Major Coordinator, 2011 Program "Collaborative Innovation Centre for Water Security and Water Science", Tsinghua University
- 2008 – Mentor, Freshman Guide Programme, Tsinghua University
- 2008 – Supervisor, Undergraduate Students Tutor Programme, Tsinghua University
- 2003 – Supervisor, Students Research Training Programme, Tsinghua University
- 2010 Group member, Touring lectures in Xijiang, organized by State Key Laboratory of HydroScience and Engineering, Urumqi, Xinjiang.
- 2008 Group member, Opening ceremony, Tibet Branch of State Key Laboratory of HydroScience and Engineering, Lhasa, Tibet.
- 2006 – 2010 Instructor, University Laboratory Open Days
- 2004 – 2006 Academic Judge, Students Innovation Competition, Tsinghua University

Professional Services at Review Panels and Boards

Research Proposals

- Natural Science Foundation of China: Soil Mechanics and Geotechnical Engineering Program
- Chinese Ministry of Education: Doctoral Supervisor Research Program
- Science Foundation of Shandong Province: Outstanding Young Scholar Program
- Science Foundation of Hebei Province: Civil Engineering Program

Journal Papers

- ASCE Journal of Geotechnical and Geoenvironmental Engineering
- Géotechnique
- Canadian Geotechnical Journal
- Soils and Foundations
- ASTM Geotechnical Testing Journal
- International Journal for Numerical and Analytical Methods in Geomechanics
- Computers and Geosciences
- Computers and Geotechnics
- ASCE Journal of Environmental Engineering
- ASCE Journal of Hazardous, Toxic, and Radioactive Waste
- Journal of Hazardous Materials
- Journal of Environmental Management
- Waste and Biomass Valorization

Conferences and Workshops

- Secretary-General, HUangwenxi Lecture, Beijing, China, 2013. (in Chinese)
- Chairman, The 8th National Young Scholar and Overseas Chinese Conference on Soil Mechanics and Engineering, Nanchang, China, 2013. (in Chinese)
- Chairman, The 1st Young Scholar Forum on Geotechnical Engineering, Beijing, China, 2012. (in Chinese)

Vice Chairman, The 1st China National Symposium on Multi-field Coupled Problems of Geo-materials and Geoenvironmental Engineering, Hangzhou, China, 2012 (in Chinese).

Member of Organization Committee, The 2nd International Symposium on Constitutive Modeling of Geomaterials: Advances and New Applications, October, 2012.

Member of International Advisory Committee, The 4th International Conference on Waste Engineering, Portugal, 2012.

Session Chair, The 3rd National Conference on Geo-environmental Engineering and Geo-synthetics, Shanghai, 2011 (in Chinese).

Member of International Advisory Committee, Session Chair, The 3rd International Conference on Waste Engineering, Beijing, 2010.

Secretary, The National Strategy Forum on the Discipline of Hydraulic and Oceanic Engineering, Fragrant Hill, Beijing, China, 2009 (in Chinese)

Member of Organizing Committee, The 2nd International Conference on Waste Engineering, Greece, 2008.

Co-Chair, International Symposium on Geo-Environmental Engineering for Sustainable Development, Xuzhou, China, 2007.

Major Organizer, International Conference on Geo-Environmental Engineering, London, UK, 2007.

Secretary-of-General, The 7th Conference on Geotechnical Earthquake Engineering, Beijing, China, 2006 (in Chinese)

Deputy Secretary-of-General, The 2nd Congress on Geotechnical Engineering, Wuhan, China, 2006 (in Chinese)

Member of Organizing Committee, Session Chair, Judge of Best Posters, The 1st International Conference on Waste Engineering, Albi, France, 2005.

Deputy Secretary-of-General, The 9th National Conference on Soil Mechanics and Geotechnical Engineering, Beijing, China, 2003 (in Chinese)

Invited Lectures

2013	Chalmers University, Sweden
2008	Newcastle University, UK
2008	Durham University, UK
2007	ASIA-LINK SYMPOSIUM: EU-China Cooperation in Higher Education, Beijing
2007	Ecole des Mines d'Albi
2006	Durham University, UK
2005	Nottingham University, UK
2004	Case Western Reserve University, USA
2004	Georgia Institute of Technology, USA
2004	New Jersey Institute of Technology, USA