

**PERSONAL DETAILS**

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**RECENT EDUCATION AND RESEARCH TRAINING**

*May 1993 - Aug., 1995* University of Cambridge, UK  
Post-doctoral Research Associate in Soil Mechanics and Geotechnical Engineering  
*Jul., 1989 - Sep., 1992* University of Bristol, UK  
Ph.D on "An Evaluation of Soil-Structure Interaction Associated with a Multi-propped Excavation"

**FELLOWSHIPS**

*1 Feb., 2005* Overseas Fellow, Churchill College, University of Cambridge, UK (選為劍橋大學邱吉爾學院海外院士)  
*28 April, 2005* Fellow of the Hong Kong Institution of Engineers (FHKIE) (香港工程師學會資深會員)  
*17 Oct., 2008* Fellow of the Institution of Civil Engineers, U.K. (FICE) (英國土木工程師學會資深會員)  
*23 Oct., 2008* Fellow of Hong Kong Academy of Engineering Sciences (HKAES) (香港工程科學院院士)  
*9 Dec., 2008* Fellow of the American Society of Civil Engineers (FASCE) (美國土木工程師學會資深會員)

**POSITION HELD AND WORK EXPERIENCE**

*May 2010* Changjiang Scholar (Chair Professorship) by the Ministry of Education in China (长江学者讲座教授) (hosting university – Hohai University)  
*Jan., 2007 – date* Associate Dean of Engineering at the Hong Kong University of Science & Technology (HKUST)  
*July, 2004 – date* Professor of Civil Engineering at HKUST  
*June 2001 – date* Director, Geotechnical Centrifuge Facility at HKUST  
*March, 2008 – March 09* Independent Consultant to Over Arup and Partners (HK) for the CLP wind farm project  
*July, 2002 – June 2004* Associate Professor (A) of Civil Engineering  
*Jan., 2000 – June 2002* Associate Professor (B) of Civil Engineering at HKUST  
*July, 1998 – June 2001* Associate Director, Geotechnical Centrifuge Facility, HKUST  
*Aug., 1995 – Dec., 1999* Assistant Professor of Civil Engineering at HKUST  
*Oct., 1994 – Dec., 1994* Independent Consultant to Arup Geotechnics in London  
*June, 1993 – Aug., 1995* Independent Consultant to Mott MacDonald Group, UK  
*Oct. 1992 – Apr., 1993* Geotechnical and Foundation Engineer (Mott MacDonald Group, UK)  
*July, 1989 - Sep. 1992* Graduate Research Assistant at University of Bristol, UK  
*July, 1989 – Apr., 1990* Senior site engineer (JT Design & Build), UK  
*Mar., 1988 – July, 1989* Graduate Civil & Structural Engineer (Ove Arup & Partners, London, UK)  
*Oct., 1987 – Feb., 1988* Research Assistant, the University of Hong Kong

**PROFESSIONAL QUALIFICATIONS**

- Chartered Civil Engineer, U.K. (CEng) (1994)
- Registered Professional Engineer in Civil and Geotechnical Engineering (Hong Kong)
- Member of China Civil Engineering Society

**EDITORIAL BOARDS**

- Associate Editor, *Canadian Geotechnical Journal*, (May 2002 – date)
- Editorial Board Member of the *Journal of Geotechnical and Geo-environmental Engineering*, American Society of Civil Engineers (ASCE) (Oct., 2001 – Dec., 2005)
- International Member of the Editorial Panel of *Journal of Geotechnical Engineering, Proceedings of the Institution of Civil Engineers*, U.K. (July 2001-2009)
- Editorial Board and then Associate Editor, *Geotechnical Engineering Journal*, Southeast Asian Geotechnical Society (2000-March 2002; April 2002- Dec., 2003)
- Editorial Board Member of the *Chinese Journal of Hydrogeology and Engineering Geology*, China
- Member of the Editorial Board of *Journal of the International Consortium on Landslides*, Japan (July 2003 – date)
- Editorial Board Member of the *Chinese Journal of Geotechnical Engineering*, China (Oct 2003-date)
- Editorial Board Member of the *Journal of Engineering Geology*, Institute of Geology and Geophysics, Chinese Academy of Science, Beijing (April 2004-2007).
- Member of International Editorial Board of *Journal of Civil Engineering*, Korean Society of Civil Engineers (January 2006 – date)
- Regional Editor, *International Journal of Physical Modelling in Geotechnics* (January 2006 – Dec., 2006).

**INTERNATIONAL TECHNICAL COMMITTEES AND PROFESSIONAL SOCIETIES**

- Appointed Board Member of International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE) (July 2010 – August 2013)
- Inaugural Vice-Chair of the Board Level Innovation Development Committee (IDC) of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE) (Nov, 2009 – July 2010)
- Core member of Joint Technical Committee 5 (JCT5) on Sustainable Use of Underground Space of three international societies including ISSMGE, IAEG and ISRM. (August 2006-Nov., 09).
- Former secretary and currently core member of Technical Committee (TC2) on *Physical Modelling in Geotechnics* of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE) (Aug., 2002-June 2010)
- Member of Technical Committee (TC6) on *Unsaturated Soils* of the ISSMGE (Jan., 2000- June 2010)
- Core Member of Technical Committee (TC28) on *Underground Construction in Soft Ground* of the ISSMGE (2005- June 2010)
- Secretary General of the Hong Kong Geotechnical Society (HKGES) under the ISSMGE (Jan 04 – Aug. 07)
- Member of American Society of Civil Engineers' Earth Retaining Structures Committee, USA (2000-date)
- Member of American Society of Civil Engineers' Deep Foundation Committee, USA (July 2001-date)
- Past Chairman of the Association of Geotechnical Specialists (HK) (2000-2001)
- Member of the Geotechnical Division Committee (GDC), the Hong Kong Institution of Engineers (July 2001- June 2007)
- Member of the Working Party on Soil Nailing of the Geotechnical Division Committee of Hong Kong Institution of Engineers (1998-2003)
- Assessor of the Hong Kong Laboratory Accreditation Scheme (2000-date)

**MAJOR CONTRIBUTIONS TO INTERNATIONAL CONFERENCES**

- General report/state-of-the-art report on "Slopes, embankments and hazards" at 5<sup>th</sup> *International Conference on Unsaturated Soils*. 6-8 September, 2010, Barcelona, Spain.
- Keynote lecture on "Geotechnical centrifuge modeling in research and engineering practice" at 4<sup>th</sup> *International Conference in Geotechnical Engineering and Soil Mechanics*. 2-3 Nov., 2010. Iran,
- Keynote lecture on "Theoretical and experimental study of very small strain anisotropic shear stiffness of an unsaturated decomposed soil" at 4<sup>th</sup> *Sino-Japan Geotechnical Symposium*, 12-14 April 2010. Okinawa, Japan.
- Taiwanese National Science Foundation invited touring lecture series in Kaohsiung and Taipei. 16-19 December 2009.
- Keynote lecture on "The Mega South-North Water Transfer Project in China – Unsaturated Soil Mechanics Aspects." The 4<sup>th</sup> *Asia-Pacific Conf. on Unsaturated Soils*, 23-25 Nov. 2009, Newcastle, Australia.
- Invited lecture on "What is Static Liquefaction Failure of Loose Fill Slopes?" *The 1<sup>st</sup> Italian workshop on landslides*. 8-10 June 2009, Naples, Italy.
- Special lecture "Deformation and failure mechanisms of loose and dense fill slopes with and without soil nails" at 10<sup>th</sup> *International Symposium on Landslides and Engineered Slopes* (JCT1). Xi'an, 30 June – 4 July, 2008.
- Co-chairman of the 6<sup>th</sup> *International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground* (TC28), Shanghai, 10-12 April, 2008.

- Keynote lecture on “Recompacted, natural and in-situ properties of unsaturated soils” at the 3<sup>rd</sup> *International Conference on Site Characterization (TC16)*, Taipei, 1-4 April 2008.
- Keynote lecture on “Liquefied flow and non-liquefied slide in loose fill slopes” at the 13<sup>th</sup> *Asian Regional Conference on Soil Mechanics and Geotechnical Engineering*, Kolkata, India, 10-14 December 2007.
- Keynote lecture on “Centrifuge Modelling of Multiple Tunnel Interaction in Shallow Ground” at 2<sup>nd</sup> *International Symposium on Tunnelling for Urban Development*, Pattaya, Thailand, 14-15 December 2007.
- Keynote lecture on “Theoretical and experimental study of small-strain stiffness of decomposed geomaterials.” 10<sup>th</sup> *National conference on SMGE*, 1-4 Nov. 2007. Chongqing.
- Keynote lecture on “Anisotropic small-strain shear moduli of unsaturated completely decomposed tuff” at the 3<sup>rd</sup> *Asian Conference on Unsaturated Soils*, Nanjiang, 21-23 April 2007.
- Invited lecture on “The performance of large-diameter bored piles and large-section barrettes in decomposed geomaterials in Hong Kong.” at the *Korean Geotechnical Engineering Conference*, Daegu, 27-28 Oct., 2006.
- Invited lecture on “Small-strain stiffness of granitic and volcanic saprolites in Hong Kong” at the *International Workshop on Natural Soil 2006*, Dec. Singapore.
- Chairman of the Regional Organising Committee for the 6<sup>th</sup> *International Conference on Physical Modelling in Geotechnics (TC2)*, Aug., 2006, Hong Kong. TC=Technical Committee
- State-of-the-Art Panel Member on “Laboratory testing including soil-water characteristic curves” at 4<sup>th</sup> *International Conference on Unsaturated Soils*. 2-5 April 2006, Phoenix, Arizona, USA.
- Keynote lecture on “Centrifuge and numerical modelling of shielding effects on piles in consolidating soil” at the 2<sup>nd</sup> *China-Japan Geotechnical Symposium*. 15-16 October, 2005, Shanghai, China.
- General Reporter on “Excavations, Retaining structures and foundations” for the 16<sup>th</sup> *International Conference on Soil Mechanics and Geotechnical Engineering (ICSMGE)*, 12-16 September 2005, Osaka, Japan. (Note: The role of a General Reporter is to review, summarise and comment on 20-30 papers in a technical session and to deliver a 20-min oral presentation in the main session of the conference and to prepare a written summary paper published in the conference proceedings).
- General Reporter on “Bored tunnels” for the 5<sup>th</sup> *International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground (TC28)*, 15-17 June 2005, Amsterdam, The Netherlands.
- State-of-the-Art Lecture: “Unsaturated soil monitoring in field applications” at the *International Symposium on Advanced Experimental Unsaturated Soil Mechanics (TC6)*, 27-29 June, 2005, Trento, Italy
- Keynote Lecturer on “Advanced Suction Control Techniques for Testing Unsaturated Soils” at the 2<sup>nd</sup> *National Conference on Unsaturated Soils*, 23-24 April 2005, Hangzhou, China.
- General Reporter: “Applications to geotechnical structures” at the 2<sup>nd</sup> *International Site Characterization Conference (TC16)*, 19-22 Sept., 2004, Porto Portugal.
- Invited lecturer on “Role of Geotechnical centrifuge modelling in advancing research and engineering design” at 5<sup>th</sup> *Young Geotechnical Engineers Conference*, 14-16 June, 2004, Taipei.
- Moderator/General Reporter: “Integrated ground behaviour: predictions by numerical methods of physical model or field behaviour” at the 3<sup>rd</sup> *International Symposium on Deformation Characteristics of Geomaterials (TC29)*, 22<sup>nd</sup>-24<sup>th</sup> Sept., 2003, Lyon, France.
- Keynote Lecturer on “Constitutive modelling of unsaturated loose soils for slopes subjected to rainfall infiltration” at the 9<sup>th</sup> *China National Conference on Soil Mechanics and Geotechnical Engineering*, 26-29 Oct., 2003, Beijing, China.
- Theme Lecturer on “Applications of centrifuge modelling technology in geotechnical engineering practice” at the 12<sup>th</sup> *Asian Regional Conference on Soil Mechanics and Geotechnical Engineering*, 4-8 Aug., 2003, Singapore.
- Keynote Lecturer on “An investigation into the use of soil nails in loose fill slopes”. *First Chinese Symposium on Geoenvironment and Geosynthetics*, 17-19 November 2002, Hanzhou, China.
- Keynote Lecturer on “The potential use of soil nailing in stabilising loose fill slopes”. *Cross-strait Conference on Water Resource and Slope Engineering*, organised by the Taiwan Civil Engineering Association, 8 Nov., 2002, Taipei.
- General Reporter: “Deep excavation: design and analysis” at the 4<sup>th</sup> *International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground (TC28)* between 23-25 October 2002, Toulous, France.
- Evaluation Reporter for the 3<sup>rd</sup> *International Conference on Unsaturated Soils (TC6)* held in Brazil between 12-14 March 2002.
- Member of Technical Committee, 2<sup>nd</sup> *Asian Conference on Unsaturated Soils*, Osaka, Japan, Nov., 2003
- Session Moderator at the *International Deep Foundation Congress*, Orlando, USA, 12-14 February 2002
- Chairman of the Organising Committee of the *International Symposium on Centrifuge Modelling and Networking, Hong Kong*, December, 2001
- Co-chairman of the Technical Committee, the 3<sup>rd</sup> *International Conference on Soft Soils*, Hong Kong, December 2001

- Technical Session Manager, the 14<sup>th</sup> *Southeast Geotechnical Conference*, Hong Kong, December, 2001
- Co-chairman of Technical Session, *International Conference on Landslides – Causes, Impacts and Countermeasures*, Davos, Switzerland, June 2001
- Member of Technical Committee and Chairman of Technical Session, 1<sup>st</sup> *Asian Conference on Unsaturated Soils*, Singapore, May 2000
- Co-chairman of two technical sessions at the 2<sup>nd</sup> *International Conference on Unsaturated Soils*, Beijing, August 1998
- Chairman of technical session at the 2<sup>nd</sup> *International Conference on Structures and Foundations in Civil Engineering*, Hong Kong, January, 1997
- Co-chairman of technical session at the *International Association for Mathematical Geology Annual Conference*, Osaka, November 1995

## AWARDS & HONOURS

Oct., 1991	Medal and Premium Award (Regional student papers competition) by the Institution of Civil Engineers (UK)
June 1992	Miller Prize (National student papers competition) by the Institution of Civil Engineers (UK)
June 1993	First runner up of the Kumagai Geotechnical Paper Competition, organised by the Hong Kong Institution of Engineers
Feb. 1994	Recipient of the Henry Adams Award by the Institution of Structural Engineers, U.K. for the best paper published in <i>The Structural Engineer</i> in 1992
Dec., 2001	Recipient of the first Tan Swan Beng Award by the Southeast Asian Geotechnical Society for the best paper published in <i>Geotechnical Engineering Journal</i> between 1998 and 2001 and the 14 <sup>th</sup> Southeast Asian Geotechnical Conference held in 2001 (获东南亚岩土工程协会颁发的 Tan Swan Beng 最佳论文奖).
June, 2003	Recipient of 2002 Mao Yisheng Youth Award (茅以升土力学及基础工程青年奖) by the Chinese Institute of Soil Mechanics and Geotechnical Engineering for significant contributions in Geotechnical Engineering
Sept., 2008	Recipient of the R M Quigley Award by the National Research Council (NRC), Canada, for publishing one of best three papers in <i>Canadian Geotechnical Journal</i> in 2007.
Dec., 2009	Elected as Changjiang Scholar (Chair Professorship) by the Ministry of Education in China (长江学者讲座教授)

## APPOINTMENTS AND GOVERNANCE

April 1999	Appointed as <i>Visiting Professor</i> by Nanjing Architectural & Civil Engineering Institute, China.
July 1999	Appointed as <i>Visiting Professor</i> by the College of Environmental & Civil Engineering, the Chengdu University of Technology, Sichuan, China.
Jan., 2000	Appointed as <i>Visiting Professor</i> by the School of Civil Engineering, the Northern Jiaotong University, Beijing, China.
May, 2000 – May 2002	Appointed as <i>Visiting Professor</i> by the Department of Geology, Beijing University, Beijing, China.
Nov., 2002	Appointed as <i>Advisory Professor</i> at Hohai University, Nanjing, China
April 04-2010	Appointed as Member of Review Panel under the Land Ordinance 2003 for the Government of the Hong Kong Special Administrative Region (香港特别行政区政府土地条例评审组成员)
Dec., 04-06	Appointed as Member of Geotechnical Engineers Registration (RGE) Committee by the Buildings Department of HKSAR (香港特别行政区屋宇署岩土工程师注册事务委员会委员)
Feb., 2005	<i>Visiting Professor</i> , Zhejiang University, China.
April 05	Convenor of the Build Environment Panel for the Research Assessment Exercise (RAE2006) of the University Grants Committee (香港特别行政区大学教育资助委员会 2006 年科研水平评估委员会建设环境评审组召集人)

Jan., 06 -31 Dec.,09	Member of Peer Review College for the Engineering and Physical Sciences Research Council (EPSRC) in the UK. (英国工程与物理科学研究委员会评议学会委员)
Jan., 06 - date	Assessor for the Class of Member – Geotechnical Discipline (GEL) of HKIE
Nov., 06 - date	Assessor for the Class of Member – Civil Discipline (CIVL) of HKIE
June 06	Appointed as <i>Visiting Professor</i> by the Changsha University of Science and Technology, China.
July 06-08	Appointed member of Geotechnical Discipline Advisory Panel of the Hong Kong Institution of Engineers.
Sept 06-09	Associate External Academic Advisor for the Department of Building and Construction, the City University of Hong Kong.
Oct 06-June 08	Member of Engineering Panel of the Research Grants Council of the HKSAR (香港特别行政区大学教育资助委员会 研究资助局工程学学科小组委员)
Feb., 07 – 30 Nov 12	Member of the Appeal Tribunal Panel (Buildings) of the Housing, Planning and Lands Bureau, HKSAR (香港特别行政区房屋及规划地政局上诉审裁团(建筑物)成员)

## RESEARCH INTERESTS

Unsaturated soil mechanics, transient seepage, slope instability, land reclamation and soil-structure interaction problems such as deep excavations, piles and tunnels.

## LIST OF PUBLICATIONS

### Scholarly Book and Book Chapter (In English)

1. Shen, C.K., Kuang, J.S. & Ng, C.W.W. (1997). Co-editors of the proceedings of 2<sup>nd</sup> *International Symposium on Structures and Foundations in Civil Engineering*. Hong Kong, January. Publisher: China Translation & Printing Services Ltd., Hong Kong.
2. Lee, C. F., Lau, C. K., Ng, C. W. W. , Kwong, A. K. L., Pang, P. L. R., Yin, Y.H. & Yue, Z. Q. (2001). Co-editors of the proceedings on 3<sup>rd</sup> *International Conference on Soft Soil Engineering*. Dec., Hong Kong. Publisher: Balkema.
3. Ng, C.W.W. & Kutter, B. (2001). Co-editors of the proceedings of the International Symposium on Geotechnical Centrifuge Modelling and Networking, Dec., Hong Kong.
4. Ng, C.W.W. & Shi, Q. (2003). The Stability of Unsaturated Soil Slopes subjected to Rainfall Infiltration. Book chapter In *Numerical Analysis and Modelling in Geomechanics*, 101-128, Ed. by John Bull. Publisher: E & FN Spon. ISBN 014-524-3289.
5. Ng, C.W.W., Simons, N. & Menzies, B. (2004). *Soil-structure Engineering of Deep Foundations, Excavations and Tunnels*. Publisher: Thomas Telford, UK. September. ISBN: 0-7277-3263-3. 424p.
6. Ng, C.W.W, Zhang, L.M. & Wang, Y.H. (2006). Proceedings of 6<sup>th</sup> Int. Conf. on Physical Modelling in Geotechnics. Publisher: Taylor & Francis (incorporating A.A. Balkema Publishers). Volumes 1 and 2. ISBN: 978-0-415-41587-3 and 978-0-415-41588-0. 1608p (two volumes).
7. Ng, C.W.W. & Menzies, B. (2007). *Advanced Unsaturated Soil Mechanics and Engineering*. Publisher: Taylor & Francis (incorporating A.A. Balkema Publishers). ISBN: 978-0-415-43679-3 (Hardcopy). 687p.
8. Ng, C.W.W., Huang, H.W. & Liu, G.B. (2009). Co-editors of the proceedings of 6<sup>th</sup> *Int. Symp on Geotechnical Aspects of Underground Construction in Soft Ground*. Publisher: CRC Press of Taylor & Francis Group. ISBN: 978-0-415-48475-6 (Hardcopy). 870p.

**Refereed Journal Publications (in English)**

1. Ng, C.W.W., Lings, M.L. & Nash, D.F.T. (1992). Back-analysing the bending moment in a concrete diaphragm wall. *The Structural Engineer*, Vol. **70**, No.23/24, 421-426. Recipient of the **Henry Adams Award** from the Institution of Structural Engineers, U.K, for the best paper published in the journal in 1992.
2. Ng, C.W.W. (1994). Lateral stress induced in the ground by concreting diaphragm walls. *Asia Engineer*, Feb., 29-32. This paper was the "First Runner Up" of the 1993 **Kumagai Geotechnical Paper Competition**, organised by the Geotechnical Division of the Hong Kong Institution of Engineers.
3. Lings, M.L., Ng, C.W.W. & Nash, D.F.T. (1994). The pressure of wet concrete in diaphragm wall panels cast under bentonite. *Journal of Geotechnical Engineering, Proceedings of the Institution of Civil Engineers, U.K.*, 107, July, 163-172.
4. Ng, C.W.W., Lings, M.L., Simpson, B. & Nash, D.F.T. (1995). An approximate analysis of the three-dimensional effects of diaphragm wall installation. *Géotechnique*, Vol. **45**, No.3, 497-507.
5. Ng, C.W.W. & Lings, M.L. (1995). Effects of modelling soil non-linearity and wall installation on the back-analysis of a deep excavation in stiff clay. *Journal of Geotechnical Engineering, ASCE*, 121, No. 10, 687-695.
6. Ng, C.W.W. , Bolton, M.D. & Dasari, G.R. (1995). The small strain stiffness of a carbonate stiff clay. *Soils and Foundations*, Vol. **35**, No.4, 109-114.
7. Ng, C.W.W. & Iwasaki, Y. (1996). A way to unite geology and geotechnical engineering through the recent understanding of soil behaviour and development in mathematical models. *Journal of Japan Society of Geoinformatics*, Vol. 7, No.1-2, 97-110.
8. Ng, C.W.W. & Shi, Q. (1998). A numerical investigation of the stability of unsaturated soil slopes subjected to transient seepage. *Computers and Geotechnics*, Vol. 22, 1-28.
9. Ng, C.W.W., Springman, S.M. & Norrish, A.R.M. (1998). Soil-structure Interaction of Spread-base Integral Bridge Abutments. *Soils and Foundations*, Vol. 38, No. 1, 145-162.
10. Ng, C.W.W., Simpson, B., Lings, M.L. & Nash, D.F.T. (1998). Numerical analysis of a multi-propped excavation in stiff clay. *Canadian Geotechnical Journal*. Vol. 35, 115-130.
11. Ng, C.W.W. & Shi, Q. (1998). The stress-strain behaviour of soils at small strains (in English). *Chinese Journal of Geotechnical Engineering*, Vol. 20, No. 1, 70-75.
12. Ng, C.W.W. & Shi, Q. (1998). Influence of rainfall intensity and duration on slope stability in unsaturated soils. *Quarterly Journal of Engineering Geology*, Vol. 31, No. 2, 105-113.
13. Ng, C.W.W. & Yan, W.M. (1998). Stress transfer and deformation mechanisms around a diaphragm wall panel. *Journal of Geotechnical and Geo-environmental Engineering, ASCE*, Vol. 124, No. 7, 638-648.
14. Ng, C.W.W., Springman, S.M. & Norrish, A.R.M. (1998). Centrifuge modelling of spread-base integral bridge abutments. *Journal of Geotechnical and Geo-environmental Engineering, ASCE*, Vol. 124, No. 5, 376-388.
15. Ng, C.W.W. (1998). Observed performance of multi-propped excavation in stiff clay. *Journal of Geotechnical and Geo-environmental Engineering, ASCE*, Vol. 124, No. 9, 889-905.
16. Ng, C.W.W., Sun, Y.F. & Lee, K.M. (1998). Laboratory measurements of small strain stiffness of granitic saprolites. *Geotechnical Engineering Journal, Southeast Asian Geotechnical Society*, Vol.29, No. 2., 233-248.

17. Ng, C.W.W. (1999). Stress paths in relation to deep excavations. *Journal of Geotechnical and Geo-environmental Engineering, ASCE*. Vol. 125, No. 5. 357-363.
18. Ng, C.W.W., Rigby, D., Lei, G. & Ng, S. W.L. (1999). Observed performance of a short diaphragm wall panel. *Géotechnique*. Vol. 49, No.5, 681-694.
19. Ng, C.W.W. & Yan, W.M. (1999). Three-dimensional modelling of a diaphragm wall construction sequence. *Géotechnique*. Vol. 49, No. 6, 825-834.
20. Ng, C.W.W., Rigby, D., Ng, S. W.L & Lei, G. (2000). Field studies of well-instrumented barrette in Hong Kong. *Journal of Geotechnical and Geo-environmental Engineering, ASCE*. Vol. **126**, No. 1, 60-73.
21. Ng, C.W.W. & Pang, Y.W. (2000). Influence of stress state on soil-water characteristics and slope stability. *Journal of Geotechnical and Geo-environmental Engineering, ASCE*. Vol. 126, No. 2. 157-166.
22. Ng, C.W.W. (2000). The use of centrifuge technology to assist geotechnical engineering designs. Invited paper. *Asia Engineer*, Vol. 28, No. 2, 13-18.
23. Ng, C.W.W. , Pun, W.K. & Pang, R. P. L. (2000). Small strain stiffness of natural granitic saprolites in Hong Kong. *Journal of Geotechnical and Geo-environmental Engineering, ASCE*. Vol. 126, No. 9. 819-833.
24. Ng, C.W.W. & Pang, Y.W. (2000). Experimental investigation of soil-water characteristics of a volcanic soil. *Canadian Geotechnical Journal*, Vol. 37, No. 6, 1252-1264.
25. Zhang, L.M., McVay, M.C. & Ng, C.W.W. (2001). A possible physical meaning of Case damping in pile dynamics. *Canadian Geotechnical Journal*. Vol. 38, No. 1, 83-94.
26. Ng, C.W.W., Guan, P. & Shang, Y.J. (2001). Weathering mechanisms and indices of igneous rocks of Hong Kong. *Quarterly Journal of Engineering Geology and Hydrology*, Vol. 34, No. 2, 133-151.
27. Guan, P., Ng, C.W.W., Sun, M. & Tang, W.H. (2001). Weathering indices for rhyolitic tuff and granite in Hong Kong. *Engineering Geology*, Vol. 59, No.1-2, 147-159.
28. Ng, C.W.W., Yau, T.L.Y., Li, J.H.M. & Tang, W.H. (2001). New failure load criterion for large diameter bored piles in weathered geomaterials. *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*. Vol. 127, No.6. 488-498.
29. Ng, C.W.W. & Zhang, L.M. (2001). Three-dimensional analysis of performance of laterally loaded sleeved piles in slope ground. *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*, Vol. 127, No.6, 499-509.
30. Ng, C. W. W. & Wang, Y. (2001). Field and Laboratory Measurements of Small Strain Stiffness of Decomposed Granites. *Soils and Foundations*, Vol. 41, No. 3, 57-71.
31. Ng, C.W.W. , Zhang, L.M. & Ho, K.K.S. (2001). Influence of Laterally Loaded Sleeved Piles and Pile Groups on Slope Stability. *Canadian Geotechnical Journal*. Vol. 38, No. 3, 553-566.
32. Ng, C. W. W., Yau, T. L. Y., Li, J. H. M. & Tang, W.H. (2001). Side Resistance of Large Diameter Bored Piles Socketed Into Decomposed Rocks. *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*. Vol. 127, No. 8, 642-657.
33. Ng, C.W.W., Van Laak, P., Tang, W.H., Li, X.S. and Shen, C.K. (2001). The Hong Kong Geotechnical Centrifuge and its Unique Capabilities (in English). *Sino-Geotechnics*, Taiwan, No. 83, Feb., 5-12.
34. Lei, G. H., Ng C. W. W. & Rigby, D. (2001). Stress and displacement around an elastic artificial rectangular hole. *Journal of Engineering Mechanics, ASCE*. Vol. 127, No.9, 880-890.

35. Zhang, L.M., Tang, W.H. & Ng, C.W.W. (2001). Reliability of axially loaded driven pile groups. *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*. Vol. 127, No.12, 1051-1060.
36. Ng, C. W.W. Zhang, L.M. & Nip, D.C.N. (2001). Response of Laterally Loaded Large-Diameter Bored Pile Groups. *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*. Vol. 127, No.8. 658-669.
37. Ng, C. W. W., Li, J. H. M. & Yau, T. L. Y. (2001). Behaviour of Large Diameter Floating Bored Piles in Saprolitic Soils. *Soils and Foundations*, Vol. 41, No.6. 37-52.
38. Ng, C.W.W., Wang, B. & Tung, Y.K. (2001). 3D numerical investigations of groundwater responses in an unsaturated slope subjected to various rainfall patterns. *Canadian Geotechnical Journal*, Vol. 38, No.5, 1049-1062.
39. Ng, C.W.W. & Chiu, C.F. (2001). Behaviour of a loosely compacted unsaturated volcanic soil. *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*. Vol. 127, No.12, 1027-1036.
40. Liu, N., Tang, W.H. & Ng, C.W.W. (2001). Probabilistic FEM for reliability of strain softening media. *Finite Elements in Analysis and Design*, 37, 603-619.
41. Ng, C.W.W., Zhan, L.T. & Cui, Y.J. (2002). A new simple system for measuring volume changes in unsaturated soils. *Canadian Geotechnical Journal*. Vol. 39, No. 3, 757-764.
42. Ng, C. W. W. & Lee, G. T. K. (2002). A three-dimensional parametric study of the use of soil nails for stabilising tunnel faces. *Computers and Geotechnics*. Vol. 29, No. 8, 673-697.
43. Ng, C.W.W & Chiu, C.F. (2003). Laboratory study of loose saturated and unsaturated decomposed granitic soil. *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*. Vol. 129, No. 6. 550-559.
44. Ng, C. W. W. & Lei, G. H. (2003). Performance of long rectangular barrettes in granitic saprolites. *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*. Vol. 129, No. 8. 685-696.
45. Ng, C. W.W., Zhan, L.T., Bao, C.G., Fredlund, D.G. & Gong, B.W. (2003). Performance of an unsaturated expansive soil slope subjected to artificial rainfall infiltration. *Géotechnique*. Vol. 53, No. 2, 143-157.
46. Ng, C.W.W. & Kong, C.K.M. (2003). Some recent developments in geotechnical engineering practice and university research environment in Hong Kong. *Journal of Geotechnical Engineering, Proceedings of the Institution of Civil Engineers, U.K.*, 156(1), 7-12.
47. Liu, J.K. & Ng, C.W.W. (2003). Numerical studies on the influence of stress-state and wetting path on transient seepage in saturated-unsaturated soils. *Eurasian Soil Science*, 36 (1): 71-75.
48. Ng, C. W. W. & Lei, G.H. (2003). An explicit analytical solution for calculating horizontal stress changes and displacements around an excavated diaphragm wall panel. *Canadian Geotechnical Journal*. Vol. 40, No. 4. 780-792.
49. Chiu, C.F. & Ng, C. W.W. (2003). A state-dependent elasto-plastic model for saturated and unsaturated soils. *Géotechnique*. Vol. 53, No. 9, 809-829.
50. Ng, C.W.W., Fung, W.T., Cheuk, C.Y. & Zhang, L.M. (2004). Influence of stress ratio and stress path on behaviour of loose decomposed granite. *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*. Vol. 130, No. 1. 36-44.
51. Ng, C.W.W., Leung, E.H.Y. & Lau, C. K. (2004). Inherent anisotropic stiffness of weathered geomaterial and its influence on ground deformations. *Canadian Geotechnical Journal*. Vol. 41. No. 1. 12-24.



52. Lee, C.J. & Ng, C.W.W. (2004). Development of downdrag on piles and pile groups in consolidating soil. *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*. Vol. 130, No. 9. 905-914.
53. Zhan, L.T. & Ng, C.W.W. (2004). Analytical Analysis of Rainfall Infiltration Mechanism in Unsaturated Soils. *International Journal of Geomechanics, ASCE*. Vol. 4, No. 4, 273-284.
54. Ng, C. W. W., Lee, K.M. & Tang, D. K.W. (2004). 3D Numerical Investigations of NATM Twin Tunnel Interactions. *Canadian Geotechnical Journal*. Vol. 41, No. 3, 523-539.
55. Ng, C. W.W., Li, X.S., Van Laak, P.A. & Hou, Y. J. (2004). Centrifuge Modeling of Loose Fill Embankment Subjected to Uni-axial and Bi-axial Earthquakes. *Journal of Soil Dynamics and Earthquake Engineering*. Vol. 24, No. 4, 305-318.
56. Zhang, L.M., Ng, C.W.W. & Lee, C.J. (2004). Effects of slope and sleeving on the behaviour of laterally loaded piles. *Soils and Foundations*. Vol. 44, No. 4. 99-108.
57. Lee, G. T.K. & Ng, C.W.W. (2005). The Effects of Advancing Open Face Tunneling on an Existing Loaded Pile. *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*. Vol. 131, No. 2. 193-201.
58. Nip, D.C.N. & Ng, C.W.W. (2005). Back-Analysis of Laterally Loaded Bored Piles using Inclinator Data. *Journal of Geotechnical Engineering, Proceedings of the Institution of Civil Engineers*. Vol. 158, April, 63-73.
59. Ng, C.W.W. & Lee, G. T.K. (2005). Three Dimensional Ground Settlements and Stress Transfer Mechanisms due to Open Face Tunnelling. *Canadian Geotechnical Journal*. Vol. 42, No.4, 1015-1029.
60. Wang, Y. & Ng, C.W.W. (2005). Effects of Stress Paths on the Small-strain Stiffness of Completely Decomposed Granite. *Canadian Geotechnical Journal*. Vol. 42, No.4, 1200-1211.
61. Liu, G. B., Ng, C. W. W. & Wang, Z.W. (2005). Observed Performance of a Deep Multi-strutted Excavation in Shanghai soft clays. *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*. Vol. 131, No. 8, 1004-1013.
62. Wang, Z. W., Ng, C. W. W. & Liu, G. B. (2005). Characteristics of wall deflections and ground surface settlements in Shanghai. *Canadian Geotechnical Journal*. Vol. 42, No.5, 1243-1254.
63. Cheuk, C.Y., Ng, C. W.W. & Sun, H.W. (2005). Numerical Analysis of Soil Nails in Loose Fill Slopes Subjected to Rainfall Infiltration Effects. *Computers and Geotechnics*. Vol. 32, 290-303.
64. Zhang, L.M., Ng, C.W.W., Chan, F. & Pang, H.W. (2006). Termination criteria for jacked pile construction in weathered soils. *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*. Vol. 132, No.7, 819-829.
65. Zhan, T.L.T. & Ng, C.W.W. (2006). Shear strength characteristics of an unsaturated expansive clay. *Canadian Geotechnical Journal*. Vol. 43, No.7, 751-763.
66. Cai, Y., Shi, B., Ng, C.W.W. & Tang, C.S. (2006). Effect of polypropylene fibre and lime admixture on engineering properties of clayey soil. *Engineering Geology*, Vol. 87, September, 230-240.
67. Zhan, L.T., Ng, C.W.W. & Fredlund, D.G. (2006). Instrumentation of an unsaturated expansive soil slope. *Geotechnical Testing Journal*, Vol. 30, No.2, 1-11.
68. Leung, E. H. Y. & Ng, C. W. W. (2007). Wall and ground movements associated with deep excavations supported by cast-in-situ wall in mixed ground conditions. *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*. Vol. 133, No.2, 129-143.

69. Ng, C.W.W. & Zhan, L.T. (2007). Comparative study of rainfall infiltration into a bare and a grassed unsaturated expansive soil slope. *Soils and Foundations*. Vol. 47, No. 2, April, 207-217.
70. Zhan, L.T., Ng, C. W.W. & Fredlund, D.G. (2007). Field study of rainfall infiltration into a grassed unsaturated expansive soil slope. *Canadian Geotechnical Journal*. Vol.44, No.4, 392-408. Recipient of the R M Quigley Honourable Mention by the National Research Council, Canada (NRC).
71. Ng, C. W. W. & Leung, E. H. Y. (2007). Determination of shear wave velocities and shear moduli of completely decomposed tuff. *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*. Vol. 133, No. 6, 630-640.
72. Liu, H. L., Ng, C.W. W. and Fei, K. (2007). Performance of a geogrid-reinforced and pile-supported highway embankment over soft clays: a case study. *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*. Vol. 133, No. 12, 1483-1493.
73. Ng, C. W.W. , Cui, Y., Chen, R. and Delage, P. (2007). The axis-translation and osmotic techniques in shear testing of unsaturated soils: a comparison. *Soils and Foundations*, Vol. 47, No.4, 675-684.
74. Lei, G. H. & Ng, C. W. W. (2007). Rectangular barrettes and circular bored piles in saprolites. *Journal of Geotechnical Engineering, Proceedings of the Institution of Civil Engineers*. Vol. 160, Issue 4, 237-242.
75. Xu, G.M. & Ng, C.W.W. (2007). Dimensional analysis and centrifuge modelling of quay wall of large-diameter bottomless cylinders (in English). *Chinese Journal of Geotechnical Engineering*, Vol. 29, No. 10, 1544-1552.
76. Zhou, X.W. & Ng, C.W.W. (2007). Analytical solution for estimating surface settlements induced by multiple tunnel excavation (in English). *Chinese Journal of Geotechnical Engineering*, Vol. 29, No. 11, 1703-1710.
77. Ng, C.W.W. & Yung, S.Y. (2008). Determination of the anisotropic shear stiffness of an unsaturated decomposed soil. *Géotechnique*. Vol. 58, No. 1, 23-35.
78. Ng, C.W.W., Poulos, H.G., Chan, V. S.H., Lam, S.S.Y. and Chan, G.C.Y. (2008). Effects of tip location and shielding on piles in consolidating ground. *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*. Vol. 134, No. 9, 1245-1260.
79. Ng, C.W.W., Springman, S.M. & Alonso, E.E. (2008). Monitoring the performance of unsaturated soil slopes. *Journal of Geological and Geotechnical Engineering*. Vol.26(6), 799-816.
80. Alonso, E.E., Ng, C.W.W. & Springman, S.M. (2008). Monitoring large scale tests for nuclear waste disposal. *Journal of Geological and Geotechnical Engineering*. Vol.26(6), 817-826.
81. Lam, S.Y., Ng, C. W.W., Leung, C.F. & Chan, S.H. (2009). Centrifuge and numerical modeling of axial load effects on piles and pile groups in consolidating ground. *Canadian Geotechnical Journal*. Vol. 46, No.1, 10-24.
82. So, A. K. O. & Ng, C. W. W. (2009). Performance of long driven H-piles in granitic saprolite. *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*. Vol. 135, No. 2, 246-258.
83. Ng, C. W. W., Xu, J. & Yung S.Y. (2009). Effects of wetting-drying and stress ratio on anisotropic very small strain stiffness of an unsaturated soil. *Canadian Geotechnical Journal*. Vol. 46, No. 9, 1062-1076.
84. Zhou, G.G.D. & Ng, C. W.W. (2010). Dimensional analysis of natural debris flows. *Canadian Geotechnical Journal*. Vol. 47, No. 7, 719-729.
85. So, A. K. O. & Ng, C. W. W. (2010). Impact compression behaviors of high capacity long piles. Accepted by *Canadian Geotechnical Journal*.

86. Ng, C. W. W., Wong, H. N. Tse, Y. M., Pappin, J., Sun, H. W. , Millis, S. & Leung, A. K. (2010). A Field Study of Stress-Dependent Soil-Water Characteristic Curves and Permeability of a Saprolitic Slope in Hong Kong. Accepted by *Géotechnique*.
87. Ng, C.W.W., Chen, Y.M., Chan, V. S.Y., Wang, L.C. & Yan, W.M. (2010). Field monitoring of large-diameter bored piles subjected to negative skin friction in consolidating ground. *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*. Under revision.
88. Ng, C.W.W., Lam, S.Y. & Poulos, H.G. (2010). Shielding of pile in consolidating soil by a ring foundation. *Géotechnique*. Under revision.
89. Leung, A. K, Sun, H. W., Millis, S. Pappin, J., Ng, C. W. W. & Wong, H. N. (2010). Field monitoring of an unsaturated saprolitic hillslope. Accepted by *Canadian Geotechnical Journal*.
90. Ng, C. W.W., Zhang, M., Pun, W.K., Shou Y.K. & Chang, G. W.K. (2010). Investigation of static liquefaction mechanisms in loose sand fill slopes. *Canadian Geotechnical Journal*. Under revision.
91. Zhou, G.G.D. & Ng, C. W.W. (2010). Three-dimensional numerical study of dry granular flows. Submitted to *Canadian Geotechnical Journal*.
92. So, A. K. O. & Ng, C. W. W. (2010). Dynamic soil parameters and case damping factors for high-capacity long H-piles. Submitted to *Canadian Geotechnical Journal*.
93. Hu, L. W. Hu, Ng, C. W. W. & Dong, Z. L. (2010). Soft ground of riverbank improved by vacuum preloading: a case study. Submitted to *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*.
94. Zhou, G.G.D. & Ng, C. W.W. (2010). Experimental and numerical investigation of reverse segregation in debris flows. Submitted to *Journal of Fluid Mechanics*.
95. Zhou, G.G.D. & Ng, C. W.W. (2010). Numerical investigation of reverse segregation in debris flows by DEM. Accepted by *Journal of Granular Matter*.
96. Ng, C. W. W., Hong, Y., Liu, G. B. & Liu, T. (2010). Ground deformations and soil-structure interaction of a multi-propped excavation in Shanghai soft clays. Submitted to *Géotechnique*.
97. Zheng, G.; Peng, S. Y.; Ng, C. W. W. & Diao Y. (2010). Excavation effects on pile behaviour and capacity. Submitted to *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*.
98. Wu, J. H., Yuan, J. P. & Ng, C. W.W. (2010). Theoretical and experimental study of initial cracking mechanism of an expansive soil due to moisture change. Submitted to *Journal of Geotechnical and Geoenvironmental Engineering, ASCE*.

#### Refereed Journal Publications (in Chinese)

1. Ng, C.W.W. & Shi, Q. (1999). Changes of stress paths caused by stress relief during excavations. *China Civil Engineering Journal*, Vol. 32, No.6, Dec., 53-58.
2. Ng, C.W.W., Shang, Y.J., Qu, Y.X. & Banna, P.M. (1999). Chemical indices and classification for weathered granitic rock in Hong Kong. *Journal of Engineering Geology (Quarterly)*, Institute of Geology, The Chinese Academy of Sciences, Beijing. Vol.7, No. 2. 125-134.
3. Ng, C.W.W., Chen, S.Y. & Pang, Y.W. (1999). Parametric study of the effects of rain infiltration on unsaturated slopes. *Quarterly Journal of Rock and Soil Mechanics*, The Chinese Academy of Sciences, Wuhan. Vol. 20, No. 1, March, 1-14.

4. Qu, Y.X., Ng, C.W.W. & Shang, Y.J. (2000). Characteristics and lateritization of granitic residual soils in Southern China and Hong Kong. *Journal of Engineering Geology (Quarterly)*, Institute of Geology, The Chinese Academy of Sciences, Beijing. Vol. 8, No.1, 16-20.
5. Shang, Y.J., Ng, C.W.W. & Qu, Y.X. (2001). Comparison of chemical indices and micro-properties of weathered degrees of granitic rocks - a case study from Kowloon, Hong Kong. *Chinese Journal of Geology*, 2001, 36(3): 279-294.
6. Liu, J.K., Ng, C.W.W., Zhao H.Y. (2001). The influence of stress state and wetting path on the transient seepage in unsaturated slopes, *Journal of Lanzhou University (Natural Sciences)*, 37(1): 102-108.
7. Ng, C.W.W. & Xu, G.M. (2003). In-flight centrifuge modelling of vertical relief boring technique. *Chinese Journal of Geotechnical Engineering*. Vol. 25, No. 3, May, 299-303.
8. Zhan, L.T., Ng, C.W.W., Bao, C.G. & Gong, B.W. (2003). Artificial rainfall infiltration tests on a well-instrumented unsaturated expansive soil slope. *Quarterly Journal of Rock and Soil Mechanics*, The Chinese Academy of Sciences, Wuhan. Vol. 24, No. 2. April. 151-158.
9. Kung, J.H.S., Lin, H.D. & Ng, C.W.W. (2003). Measurement of matric suction of unsaturated soil slope and its application in the analysis of slope stability. *Sino-Geotechnics*, Taiwan, No. 96, June, 27-42.
10. Tung, Y.K., Kwok, Y.F., Ng, C.W.W. & Zhang, H. (2004). A preliminary study of rainfall infiltration on slope using a new conjunctive surface and subsurface flow model. *Quarterly Journal of Rock and Soil Mechanics*, The Chinese Academy of Sciences, Wuhan. Vol. 25, No. 9, 1347-1352.
11. Gong, B.W. , Ng, C.W.W. & Wang, B. (2004). Influence of stress states on soil-water characteristics of expansive soils. *Quarterly Journal of Rock and Soil Mechanics*, The Chinese Academy of Sciences, Wuhan. Vol. 25, No. 12. December, 1915-1918.
12. Ng, C.W.W. & Chen, R. (2006). Advanced suction control techniques for testing unsaturated soils. *Chinese Journal of Geotechnical Engineering*. Vol. 28, No.2, 123-128.
13. Zhan, L.T. & Ng, C.W.W. (2006). Experimental study on mechanical behaviour of recompacted unsaturated expansive clay. *Chinese Journal of Geotechnical Engineering*. Vol. 28, No.2, 196-201.
14. Zhang, M. & Ng, C.W.W. (2007). Rainfall simulation techniques in centrifuge modelling of slopes. *Journal of Rock and Soil Mechanics*, The Chinese Academy of Sciences, Wuhan. Vol. 28, Supp. Oct., 53-57.
15. Zhang, M. & Ng, C.W.W. (2008). Displacement measurement using video photography of targets in centrifuge tests. *J. of Shenzhen University – Science and Engineering*. Vol. 25, No. 2, 134-139.
16. Zhang, M., Ng, C.W.W. & Chen, R. (2008). A suction probe for direct measurement of high matric suction. *Chinese Journal of Geotechnical Engineering*. Vol. 30, No. 8, 1191-1195.
17. Li, L., Chen, R., Shao, M.S., Pei, Q.Q., Ng, C.W.W., Wang, S.J. & Li, Z.X. (2009). Shear strength of an unsaturated loess soil reinforced by potassium silicate upon saturation and influence of environment factors to reinforcement effect. *Chinese Journal of Rock Mechanics and Engineering*, Vol. 28, No. 5, 1074-1080.
18. Zheng, G., Diao, Y & Ng, C.W.W. (2009). Finite element analysis on mechanism of effect of extra-deep excavation on vertical load transfer and settlement of a single pile. *Chinese Journal of Geotechnical Engineering*. Vol. 31, No.6, 837-845.
19. Zhang, M. & Ng, C.W.W. (2010). Ground water control technique in centrifuge tests. *Journal of Rock and Soil Mechanics*, The Chinese Academy of Sciences, Wuhan. Vol. 31, No. 2, 355-360.

20. Ng, C.W.W., Li, Qing & Liu, G.B. (2010). The characteristics of one-dimensional compressibility of Shanghai Clay. *Chinese Journal of Geotechnical Engineering*. Accepted.

### Conference Papers (in English)

1. Lings, M.L., Nash, D.F.T., Ng, C.W.W. & Boyce, M.D. (1991). Observed behaviour of a deep excavation in Gault Clay: a preliminary appraisal. *Proc. 10th Eur. Conf. Soil Mech. & Fdn. Engng., Florence*, Vol. 2, 467-470.
2. Lings, M.L., Nash, D.F.T. & Ng, C.W.W. (1992). Reliability of earth pressure measurements adjacent to a multi-propped diaphragm wall. *Proc. Int. Conf. on Retaining Structures, Cambridge*. 258-269, Thomas Telford, London.
3. Ng, C.W.W. (1992). Lateral stress development in diaphragm walls during concreting. *Proc. Int. Conf. on Retaining Structures, Cambridge*. 77-80, Thomas Telford, London.
4. Ng, C.W.W. (1992). Nonlinear modelling of wall installation effects. *Proc. Int. Conf. on Retaining Structures, Cambridge*. 160-163, Thomas Telford, London.
5. Ng, C.W.W. (1992). Temperature effects on field monitoring. *Proc. Int. Conf. on Retaining Structures, Cambridge*. 307-311, Thomas Telford, London.
6. Ng, C.W.W. & Springman, S.M. (1994). Uplift resistance of buried pipelines in granular materials. *Proc. Int. Conf. CENTRIFUGE 94, Singapore*, 753-758. Editors: Leung, Lee and Tan. Rotterdam: Balkema.
7. Ng, C.W.W. (1994). Effects of modelling wall installation on multi-staged excavations in stiff clays. *Proc. Int. Symp. on Pre-failure Deformation Characteristics of Geomaterials, Hokkaido, Japan*. Vol. 1, 595-600. Editors: Shibuya, Mttachi & Miura. Rotterdam: Balkema.
8. Ng, C.W.W. (1994). Significance of non-linear analysis for multi-propped excavations in stiff clays. *Proc. Int. Conf. on Compu. Methods in Struct. & Geot. Engng, Dec, Hong Kong*. Vol. 4, 1289-1294.
9. Bolton, M.D., Dasari, G.R. & Ng, C.W.W. (1994). Measurement of small strain stiffness using the modified LDTs. *Proc. Int. Sym. on Pre-failure Deformation Characteristics of Geomaterials, Hokkaido, Japan*. Vol. 2. 1108-1110.
10. Ng, C.W.W. & Nash, D.F.T. (1995). The compressibility of a carbonate clay. *Proc. Int. Sym. on Compression and Consolidation of Clayey Soils, Hiroshima University, Japan*. Vol. 1, 281-286.
11. Ng, C.W.W. (1995). Numerical analysis of geological effects on  $K_0$ . *Proc. 10th Asian Regional Conf. on Soil Mech. & Fdn. Engng, Beijing*, Vol. 1, 55-58.
12. Ellis, E.A., Ng, C.W.W. & Springman, S.M. (1995). Piled bridge abutments on soft clay. *Proc. 10th Asian Regional Conf. on Soil Mech. & Fdn. Engng, Beijing*. Vol. 1, 193-196.
13. Simpson, B. & Ng, C.W.W. (1995). Anisotropic analysis of settlement trough due to tunnelling in an overconsolidated clay. *Proc. 10th Asian Regional Conf. on Soil Mech. & Fdn. Engng, Beijing*, Vol. 2. 166-167.
14. Ng, C.W.W., Norrish, A.R.M. & Springman, S.M. (1995). Behaviour of integral spread-base abutment in centrifuge. *Proc. 10th Asian Regional Conf. on Soil Mech. & Fdn. Engng, Beijing*, Vol. 2. 241-242.

15. Nash, D.F.T., Lings, M.L. & Ng, C.W.W. (1996). Observed heave and swelling beneath a deep excavation in Gault clay. *Proc. Int. Sym. on Geotechnical Aspects of Underground Construction in Soft Ground, City University, London*. 191-196.
16. Ng, C.W.W. & Shi, Q. (1997). Importance of antecedent rainfall duration on slope stability. *Proc. 2nd Int. Sym. on Structures and Foundations in Civil Engineering, January, Hong Kong*. 243-250.
17. Chiu, C.F., Ng, C.W.W. & Shen, C.K. (1998). Collapse behaviour of a loosely compacted soil in Hong Kong. *Proc. 2nd Int. Conf. on Unsaturated Soils, Beijing, China*. Vol.1, 25-30.
18. Shen, C.K., Li X. S., Ng, C.W.W., Van Laak, P.A., Kutter, B.L., Cappel, K. and Tauscher, R. C. (1998). Development of a Geotechnical Centrifuge in Hong Kong. *Proc. Int. Conf. CENTRIFUGE 98, Japan. Sept.*, 13-18.
19. Ng, C.W.W., Springman, S.M. and Cheng, H.Y.P. (1998). Cyclic behaviour of spread-base integral bridge abutments. *Proc. Int. Conf. CENTRIFUGE 98, Japan. Sept.*, 415-420.
20. Malone, A., Ng, C.W.W. & Pappin, J. (1997). Invited paper: Displacements around deep excavations in completely decomposed granite. *Proc. 14th Int. Conf. Soil Mech. & Fdn. Engng., Hamburg*. Vol.4, 2325-2328.
21. Malone, A., Ng, C.W.W. & Pappin, J. (1997). Country report (invited): Collapses and displacements of deep excavations in Hong Kong. 30th year Anniversary Symposium of the Southeast Asian Geotechnical Society, Bangkok, Nov., 1997, 5-124 to 5-129.
22. Shen, C.K., Ng, C.W.W., Tang, W.H. & Rigby, D. (1997). Invited paper: Testing a friction barrette in decomposed granite in Hong Kong. *Proc. 14th Int. Conf. Soil Mech. & Fdn. Engng., Hamburg*. Vol. 4, 2423-2426.
23. Ng, C.W.W. & Pang, Y.W. (1998). Role of surface cover and impeding layer on slope stability in unsaturated soils. *Proc. 13th Southeast Asian Geot. Conf., Taiwan*. Vol.1, 135-140.
24. Ng, C.W.W. & Yan, W.M. (1998). Prediction of ground deformations during a diaphragm wall construction. *Proc. 13th Southeast Asian Geot. Conf., Taiwan*. Vol.1, 631-636.
25. Ng, C.W.W., Chiu, C.F. & Shen, C.K. (1998). Effects of wetting history on the volumetric deformations of an unsaturated loose fill. *Proc. 13th Southeast Asian Geot. Conf., Taiwan*. Vol.1, 141-146.
26. Ng, C.W.W. & Pang, Y.W. (1999). Stress effects on soil-water characteristic curve and pore water pressure distributions in unsaturated soil slopes. *Proc. 11th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Korea*. Vol.1, 371-374.
27. Tang, D.K.W., Lee, K.M. & Ng, C.W.W. (1999). Stress paths around a 3D numerically simulated NATM tunnel in stiff clay. *Proc. Int. Symp. on Geotechnical Aspects of Underground Construction in Soft Ground, Tokyo, July*. 443-449.
28. Ng, C.W.W., Van Laak, P., Tang, W.H. & Li, X.S. (1999). The Geotechnical Centrifuge Facility in Hong Kong. *Proc. 2<sup>nd</sup> China-Japan Joint Symposium on Recent Development of Theory and Practice in Geotechnolgy*, Dec., 1999, Hong Kong. 327-334.
29. Ng, C.W.W., Wang, Y. & Rigby, D. (1999). Stiffness-strain characteristics of a saprolitic soil in Hong Kong. *Proc. 2<sup>nd</sup> China-Japan Joint Symposium on Recent Development of Theory and Practice in Geotechnolgy*, Dec., 1999, Hong Kong. 335-342.

30. Ng, C.W.W. (1999). (By invitations only) Applications of Geotechnical Centrifuge Modelling Techniques for Engineering Designs. *Proc. Construction Challenges into the Next Century*. Dec., 1999, Hong Kong Institution of Engineers. 241-252.
31. Ng, C.W.W. & Chiu, C.F. (2000). Undrained behaviour of loosely compacted fills and its implications on slope stabilisation measures. *Proc. 8<sup>th</sup> Int. Sym. on Landslides, Cardiff*, June, Vol. 3, 1087-1092.
32. Ng, C.W.W., Pang, Y.W. & Chung, S.S. (2000). Influence of drying and wetting history on stability of unsaturated soil slopes. *Proc. 8<sup>th</sup> Int. Sym. on Landslides, Cardiff*, June, Vol. 3, 1093-1098.
33. Sun, H.W., Law, W.H.Y., Ng, C.W.W., Tung, Y.K. & Liu, J.K. (2000). The 2 July 1997 Lai Ping Road Landslide, Hong Kong – Hydrogeological Characterisation. *Proc. 8<sup>th</sup> Int. Sym. on Landslides, Cardiff*, June, Vol. 3, 1431-1436.
34. Ng, C.W.W., Tung, Y.K., Wang, B. & Liu, J.K. (2000). 3D analysis of effect of rainfall patterns on pore water pressure in unsaturated slopes. *Geo Eng 2000 International Congress, Melbourne, Australia*.
35. Ng, C.W.W., Zhang, L.M., Ho, K.K.S. & Choy, C.K. (2000). Influence of laterally loaded sleeved piles on slope stability. *Geo Eng 2000 International Congress, Melbourne, Australia*.
36. Chiu, C.F. Ng, C.W.W. & Rahardjo, H. (2000). Laboratory investigation of loosely compacted fill and its implications to fill slope design. *Geo Eng 2000 International Congress, Melbourne, Australia*.
37. Ng, C.W.W., Guan, P. & Tang, W.H. (2000). Weathering mechanisms and indices of volcanic rocks in Hong Kong. *Geo Eng 2000 International Congress, Melbourne, Australia*.
38. Ng, C.W.W., Chiu, C.F. & Rahardjo, H. (2000). Laboratory study of loosely compacted unsaturated volcanic fill in Hong Kong. *Asian Conference on Unsaturated Soils (Unsat-Asia 2000)*, May, Singapore, 551-556.
39. Zhan, L. T. Ng, C. W. W., Wang, B. & Bao, C. G. (2000). Influence of some hydraulic parameters on the pore-water pressure distribution in unsaturated homogeneous soils. *Asian Conference on Unsaturated Soils (Unsat-Asia 2000)*, May, Singapore, 457-462.
40. Ng, C. W. W., Wang, B., Bao, C. G. & Gong, B.W. (2000). Preliminary study on soil-water characteristics of two expansive soils. *Asian Conference on Unsaturated Soils (Unsat-Asia 2000)*, May, Singapore, 347-352.
41. Bao, C. G. & Ng, C. W. W. (2000). Keynote Paper: Some thoughts and studies on the prediction of slope stability in expansive soils. *Asian Conference on Unsaturated Soils (Unsat-Asia 2000)*, May, Singapore, 15-31.
42. Ng, C. W. W., Yau, T.L.Y. Li, J.H.M. & Tang, W. H. (2000). A New Ultimate Load Criterion for Large Diameter Bored Piles in Hong Kong. *HKIE Geotechnical Division Annual Seminar on Foundations*. May, 193-200.
43. Ng, C. W. W., Rigby, D.B., Li, J.H.M. Yau, T.L.Y., Lee, S.C. & Calton, C. (2000). Shaft Resistance of Large Diameter Bored Piles Constructed Under Water in Saprolites. *HKIE Geotechnical Division Annual Seminar on Foundations*. May, 137-144.
44. Ng, C. W. W., Zhang, L.M., Tang, W. H. & Choy, G. (2000). Behaviour of Laterally Loaded Sleeved Piles Constructed in Sloping Ground. *HKIE Geotechnical Division Annual Seminar on Foundations*. May, 99-106.
45. Ng, C. W. W., Nip, D.C.N., Tang, W.H., Lee, S.C. & Gerken, D. (2000). A New Simple Technique for Analysing Bored Piles Subjected to Lateral Loads. *HKIE Geotechnical Division Annual Seminar on Foundations*. May, 203-210.

46. Ng, C. W. W. and Zhan, L.T. (2000). Influence of re-compaction on soil suction in and stability of unsaturated loose fill slopes. *Symposium on Slope Hazards and Their Prevention*, May, Hong Kong, 59-64.
47. Ng, C. W. W., Zhang, L.M., Ho, K.K.S., Tang, W. H. & Choy, G.C.K. (2000). Effects of Sleeved Pile and Pile Group on Slope Stability. *Symposium on Slope Hazards and Their Prevention*, May, Hong Kong, 477-482.
48. Ng, C. W. W., Lee, S. K. & Guan, P. (2000). Chemical weathering indices for weathered granite in Hong Kong. *Int. Conf. on "The current practice of engineering geology in Hong Kong"*, Nov., Hong Kong, 179-185.
49. Ng, C.W.W. Zhang, L.M., Nip C.N. and Tang, W.H. (2000). Response of a laterally loaded large-diameter bored pile in Hong Kong. Bangkok, Nov., Gectech. Year 2000: Developments in Geotechnical Engineering, Vol. 2, 301-312.
50. Ng, C.W.W., Zhang, L.M. & Ho, K.K.S. (2001). Interaction between slope and sleeved pile group. *Proc. 10<sup>th</sup> Int. Conf. on Computer Methods and Advances in Geomechanics (IACMAG)*, January, Arizona, USA, Vol. 2, 1193-1196.
51. Ng, C.W.W., Van Laak, P. & Tang, W.H. (2001). The Development of Advanced Geotechnical Centrifuge Modelling Technology in Hong Kong. *Proc. Int. Conf. on Construction*. 19-21 June 2001, Hong Kong, Vol.2, 175-186.
52. Ng, C. W. W. & Lee, G. T. K. (2001). Three-dimensional modelling of soil nails for stabilising tunnel face in soft ground. *Proc. Regional Conf. on Geot. Aspect of Underground Construction in Soft Ground*, April, Shanghai, 18-22.
53. Ng, C.W.W. & Leung, E.H.Y. (2001). Influence of anisotropic stiffness on ground deformations around deep excavations: a preliminary study. *HKIE Geotechnical Division Annual Seminar on Geotechnical Deformations and Movements*, May, 27-34.
54. Ng, C.W.W. , Rigby, D. B., Yau, T. L. Y., Li, J. H. M., & Tang, W. H. (2001). Side shear of large diameter drilled shafts in weathered geomaterials. *ASCE Geotechnical Special Publication No. 113*, 758-772. Ed by T.L. Brandon.
55. Ng, C.W.W. & Zhan, L.T. (2001). Fundamentals of re-compaction of unsaturated loose fill slopes. *Proc. Int. Conf. on Landslides – causes, impacts and countermeasures*, Davos, Switzerland, June, 557-564.
56. Ng, C. W. W., Wang, B. & Gong, B.W. (2001). A new apparatus for studying stress effects on soil-water characteristics of unsaturated Soils. *Proc. 15<sup>th</sup> ICSMGE*, August, Istanbul, Turkey. Vol. 1, 611-614.
57. Cheuk, C.Y., Ng, C.W.W. & Sun, H.W. (2001). Numerical analysis of soil nails in loose fill slopes. *Proc. 14<sup>th</sup> Southeast Asian Geot. Conf.* Dec., Hong Kong. Vol. 1, 725-730. Recipient of Tan Swan Beng Best Paper Award by the Southeast Asian Geotechnical Society.
58. Fredlund, D.G., Rahardjo, H. Leong, E.C. & Ng, C.W.W. (2001). Suggestions and recommendations for the interpretation of soil-water characteristic curves. *Proc. 14<sup>th</sup> Southeast Asian Geot. Conf.* Dec., Hong Kong. Vol. 1, 503-508.
59. Ng, C.W.W., Van Laak, P. Tang, W.H., Li, X.S. & Zhang, L.M. (2001). The Hong Kong Geotechnical Centrifuge. *Proc. 3<sup>rd</sup> Int. Conf. Soft Soil Engineering*, Dec., Hong Kong. 225-230.
60. Cosgrove, E.F., Lehane, B.M., Ng, C.W.W. (2001). Sand tested under cyclic triaxial conditions with constant radial stress. *Proc. 15<sup>th</sup> ICSMGE*, August, Istanbul, Turkey. Vol.1, 63-68.



61. Mao, S.Z., Cui, Y.J. & Ng, C.W.W. (2002). Slope stability analysis for a water diversion canal in China. *Proc. 3<sup>rd</sup> Int. Conf. on Unsaturated Soils, Unsat2002*, 10-13 March, Recife, Brazil. Vol. 2, 805-810.
62. Zhan, L.T., Liu, C. L. & Ng, C.W.W. (2002). A new simple analytical solution for estimating groundwater rise in a soil slope due to sewer or drain leakage. *Proc. 3<sup>rd</sup> Int. Conf. on Unsaturated Soils, Unsat2002*, 10-13 March, Recife, Brazil. Vol. 2, 779-783.
63. Ng, C.W.W. (2002). Invited evaluation report on applied unsaturated soil mechanics. *Proc. 3<sup>rd</sup> Int. Conf. on Unsaturated Soils, Unsat2002*, 10-13 March, Recife, Brazil. Vol. 3, 1169-1176.
63. Ng, C. W. W., Van Laak, P.A., Zhang, L. M., Tang, W. H., Zong, G. H., Wang, Z. L., Xu, G. M. & Liu, S. H. (2002). Development of a four-axis robotic manipulator for centrifuge modeling at HKUST. *Proc. Int. Conf. on Physical Modelling in Geotechnics*, St. John's Newfoundland, Canada. 71-76.
64. Lee, G. T. K. & Ng, C. W. W. (2002). Three-dimensional Analysis of Ground Settlements due to Tunnelling: Role of  $K_0$  and Stiffness Anisotropy. *Proc. 4<sup>th</sup> Int. Symp. Geotechnical Aspects of Underground Construction in Soft Ground*. Toulouse, France. Oct. 617-622. Published by SPECIFIQUE, Lyon, France.
65. Ng, C.W.W. (2002). Invited session report: Deep excavations: design and analysis. *Proc. 4<sup>th</sup> Int. Symp. Geotechnical Aspects of Underground Construction in Soft Ground*. Toulouse, France. Oct. 49-66. Published by SPECIFIQUE, Lyon, France.
66. Ng, C. W. W. Zhang, M. & Shi, X.G. (2002). An investigation into the use of soil nails in loose fill slopes. Invited keynote paper (In Chinese). *Proc. of the First Chinese Symposium on Geoenvironment and Geosynthetics*, 17-19 Nov., Hangzhou, Zhejiang, China, 61-80.
67. Van Laak, P. A., Hou, Y. J. & Ng, C.W.W. (2003). Seismic response of saturated soil embankment in Hong Kong. *Proc. of 12<sup>th</sup> Pan-American Conf. on Soil Mechanics and Geotechnical Engineering*, Boston, USA, June. Vol. 2, 2301-2306. Editors: P.J. Culligan, H.H. Einstein & A.J. Whittle.
68. Lee, C.J. & Ng, C.W.W. (2003). Parametric study of a soil nailed slope: effects of dilation and shear strength distribution at interface. *Proc. of 12<sup>th</sup> Pan-American Conf. on Soil Mechanics and Geotechnical Engineering*, Boston, USA, June, Vol. 2, 2147-2152. Editors: P.J. Culligan, H.H. Einstein & A.J. Whittle.
69. Ng, C. W.W., Zhan, L.T., Fredlund, D.G., Bao, C.G. & Gong, B. W. (2003). Rainfall infiltration study of an unsaturated expansive soil slope for the South-to-North Water Transfer Project. *Asian Conference on Unsaturated Soils (Unsat-Asia 2003)*, Nov., Osaka, Japan, 127-132.
70. Ng, C. W.W., Zhou X.W. & Chung, J. K.H. (2003). Centrifuge modelling of multiple tunnel interaction in shallow ground. *Proc. 13<sup>th</sup> European Conf. on Soil Mechanics and Geotechnical Engineering, Prague*, Czech Republic, 25-28 Aug. Vol.2, 759-762.
71. Lee, C.J. & Ng, C.W.W. (2003). Shielding effects on dragload and downdrag in a pile group. *Proc. of 9th China National Conference on Soil Mechanics and Geotechnical Engineering, Oct., Beijing*. Vol. 1, 459-462.
72. Ng, C.W.W., Hou, Y.J. & Van Laak, P.A. (2003). Centrifuge modelling of saturated fill slopes subjected to one-dimensional and two-dimensional earthquakes (in Chinese). *Proc. of 9th China National Conference on Soil Mechanics and Geotechnical Engineering, Oct., Beijing*. Vol. 2, 1049-1052.
73. Zhan L.T. & Ng, C.W.W. (2003). A new doubled-wall system for measuring volume changes of unsaturated soil (in Chinese). *Proc. of 9th China National Conference on Soil Mechanics and Geotechnical Engineering, Oct., Beijing*. Vol. 1, 401-405.

74. Ng, C.W.W., Zhou, X.W., Lee, C.J. & Xu, G.M. (2003). Restoration of building tilt by an in-flight robotic manipulator in a centrifuge. *Proc. of the Sino-Japan Symposium in Geotechnical Engineering, Oct., Beijing*. 351-353. Editors: Yushen Yu and Hirokazu Akagi, Tsinghua University Press.
75. Chan, G.C.Y., Lee, C.J., Chan, V.S.H., Ng, C.W.W. & Leung, C.F. (2003). Centrifuge modelling of the behaviour of a floating pile in consolidating soil. *Proc. of 9th China National Conference on Soil Mechanics and Geotechnical Engineering, Oct., Beijing*. Vol. 1, 435-438.
76. Ng, C.W.W. & Leung, E.H.Y. (2003). Determination of anisotropic stiffness of completely decomposed tuff. *Proc. of 9th China National Conference on Soil Mechanics and Geotechnical Engineering, Oct., Beijing*. Vol. 1, 237-240.
77. Ng, C.W.W. & Chiu, C.F. (2003). Invited keynote paper. Constitutive modelling of unsaturated loose soil slopes subjected to rainfall infiltration. *Proc. of 9th China National Conference on Soil Mechanics and Geotechnical Engineering, Oct., Beijing*. Vol. 1, 187-200.
78. Ng, C.W.W. & Tang, W.H. (2003). Side resistance of rock-socketed piles in Hong Kong. *Proc. of 3<sup>rd</sup> Int. Conf. on Structural and Geotechnical Engineering*, 23-24 Oct., Taipei, 617-626.
79. Ng, C.W.W., Hou, Y. J. & Van Laak, P.A. (2003). Performance of saturated loose granitic fill slopes subjected to earthquakes in a centrifuge. *Proc. of Int. Conf. on Slope Engineering*, Dec., Hong Kong. Vol. 1, 473-478.
80. Chiu, A.C.F. & Ng, C.W.W. (2003). A new constitutive model for investigating the behaviour of saturated and unsaturated slopes. *Proc. of Int. Conf. on Slope Engineering*, Dec., Hong Kong. Vol. 1, 356-361.
81. Ng, C.W.W., Kusakabe, O. & Leung, C.F. (2003). Theme Lecture on "Applications of centrifuge modelling technology in geotechnical engineering practice" at the 12<sup>th</sup> Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, 4-8 Aug., 2003, Singapore. Vol. 2. 1277-1285.
82. Kwok, S.Y.F., Tung, Y.K. & Ng, C.W.W. (2003). Uncertainty and sensitivity analysis of coupled surface and subsurface flows. *Proc. of Probabilistic Approaches & Groundwater Modeling Symposium, EWRI, ASCE*.
83. Leung, E.H.Y. & Ng, C.W.W. (2004). Inherent anisotropic stiffness of decomposed tuff and alluvium. *Proc. of A W Skempton Memorial Conference*, London. Vol. 1, 488-497.
84. Zhang, L. M., Shek, M. P. , Ng, C. W. W., Tang, W. H., Chan, S. T., Tang, K. H. & Pang H.W. (2004). Developing final set tables for long driven piles using wave equation analysis. *HKIE Geotechnical Division Annual Seminar on Recent Advances in Geotechnical Engineering*. 51-59.
85. Ng, C.W.W. (2004). Invited lecture. Role of Geotechnical centrifuge modelling in advancing research and engineering design. *Proc. 5<sup>th</sup> Young Geotechnical Engineers Conference*, 14-16 June, Taipei, 27-33.
86. Ng, C.W.W. (2004). General Report: Applications to geotechnical structures. *Proc. 2<sup>nd</sup> International Site Characterization Conference (TC16)*, 19-22 Sept., Porto Portugal, Vol. 2, 1379-1390, Millpress, Rotterdam.
87. Ng, C.W.W. & Lai, J. C. H. (2004). Effects of stress-dependent soil-water characteristic and damming on slope stability. *Proc. 57th Can. Geot. Conf. and 5th joint CGS-IAH Conf. 24-27 Oct., Quebec City, Canada*. Session 5E, 28-35.
88. Tung, Y.K., Zhang, H. Ng, C.W.W. & Kwok, Y.F. (2004). Transient seepage analysis of rainfall infiltration using a new conjunctive surface-subsurface flow model. *Proc. 57th Can. Geot. Conf. and 5th joint CGS-IAH Conf. 24-27 Oct., Quebec City, Canada*. Session 7C, 17-22.

89. Chung, I.Y.M. & Ng, C.W.W. (2005). Three-dimensional Numerical Investigations of the Influence of Sleeved Piles on the Stability of Retaining Wall. *Proc. Geo-Frontiers, ASCE*, 24-26 Jan., Austin, Texas. GSP132 – Advance in Deep Foundations.
90. Ng, C.W.W., Lee, C.J., Zhou, X.W. & Xu, G.M. (2005). Novel centrifuge simulations of restoration of building tilt. *Proc. Of the 16<sup>th</sup> ICSMGE, 12-16 Sept. Osaka, Japan*. Vol. 3, 1529-1532.
91. Ng, C. W. W. & Zhou, R. Z. B. (2005). Effects of Soil Suction on Dilatancy of an Unsaturated Soil. *Proc. Of the 16<sup>th</sup> ICSMGE, 12-16 Sept. Osaka, Japan*. Vol. 2, 559-562.
92. Van Laak, P. A. & Ng, C. W.W. (2005). Stability of Loose CDG Fill Slopes Subjected to Uni-axial and Bi-axial Earthquakes in a Centrifuge. *Proc. Of the 16<sup>th</sup> ICSMGE, 12-16 Sept. Osaka, Japan*. Vol. 4, 2723-2726.
93. Lu, Z.H., Tung, Y.K., Ng, C.W.W. & Tang, W. H. (2005). "Sensitivity and uncertainty analyses of coupled surface-subsurface flow model on steep slopes." In: *Environmental Hydraulics and Sustainable Water Management*, Vol. 2, edited by J.H.W. Lee and K.M. Lam. pp.1903-1909. Proceedings of the 4th Int. Sym. on Environmental Hydraulics and 14th Congress of Asia and Pacific Division of Int. Association of Hydraulic Engineering and Research (IAHR/APD), Dec. 15-18, 2004, Hong Kong. Taylor and Francis Group, London.
94. Lee, G. T. K. & Ng, C. W. W. (2005). Three-dimensional numerical simulation of tunnelling effects on existing pile. *Proc. 5<sup>th</sup> Int. Symp. Geotechnical Aspects of Underground Construction in Soft Ground*. Amsterdam, The Netherlands. 15-17 June. 139-144, Editors: Bakker, Bezuijen, Broere & Kwast. Taylor & Francis, London, U.K.
95. Tang, D.K.W. & Ng, C.W.W. (2005). Influence of lagging distance on the interaction of two open face parallel tunnels. *Proc. 5<sup>th</sup> Int. Symp. Geotechnical Aspects of Underground Construction in Soft Ground*. Amsterdam, The Netherlands. 15-17 June. 681-686. Editors: Bakker, Bezuijen, Broere & Kwast. Taylor & Francis, London, U.K.
96. Chen, R. & Ng, C.W.W. (2005). Wetting and anisotropic consolidation behaviour of an expansive clay. *Proc. International Symposium on Advanced Experimental Unsaturated Soil Mechanics (TC6)*, 27-29 June, Trento, Italy. 157-162.
97. Ng, C.W.W. (2005). Invited General Report on "Bored Tunnels". *Proc. 5<sup>th</sup> Int. Symp. Geotechnical Aspects of Underground Construction in Soft Ground (TC28)*. Amsterdam, The Netherlands. 15-17 June. 43-55. Editors: Bakker, Bezuijen, Broere & Kwast. Taylor & Francis, London, U.K.
98. Alonso, E., Ng, C.W.W. and Springman, S.M. (2005). Invited State-of-the-Art Report on "Unsaturated soil monitoring in field applications". *Proc. International Symposium on Advanced Experimental Unsaturated Soil Mechanics (TC6)*, 27-29 June, Trento, Italy.
99. Ng, C.W.W. (2005). Invited Country report: "Failure mechanisms and stabilisation of loose fill slopes in Hong Kong." *Proc. International Seminar on Slope Disasters in Geomorphological/Geotechnical Engineering (TC6 and TC29)*. 10 Sept. Osaka. 71-84.
100. Ng, C.W.W. (2005). Invited General Report on "Excavation, Retaining structures and Foundations". *Proc. Of the 16<sup>th</sup> ICSMGE, 12-16 Sept. Osaka, Japan*. Vol. 5, 3027-3036.
101. Zhan, L.T. and Ng, C.W.W. (2005). Soil-water characteristics of an expansive clay. *Proc. of Int. Sym. on Engineering Barrier for High-level Radioactive Waste*, Sept., Shanghai, `110-120.

102. Ng, C.W.W., Chan, S.H. & Lam, S.Y. (2005). Keynote paper: Centrifuge and numerical modelling of shielding effects on piles in consolidating soil. *Proc. 2<sup>nd</sup> China-Japan Geotechnical Symposium*. 15-16 October, Shanghai, China. 7-19.
103. Ng, C.W.W. & Chen, R. (2005). Keynote lecture: Advanced suction control techniques for testing unsaturated soils. *Proc. of 2nd National Conference on Unsaturated Soils*, 22-23 April, Hangzhou, China. 144-167, Publisher: Zhejiang University Press. (In Chinese).
104. Ho, K.M.Y., Ng, C.W.W., Ho, K.K.S. & Tang, W.H. (2006). State-dependent Soil-water Characteristic Curves of Weathered Soils. *Proc. of 4<sup>th</sup> Int. Conf. on Unsaturated Soils, April, Arizona*. Vol. 2, 1302-1313.
105. Zhou, R. Z. B., Take, A. & Ng, C. W. W. (2006). A case study in tensiometer interpretation: centrifuge modelling of unsaturated slope behaviour. *Proc. of 4<sup>th</sup> Int. Conf. on Unsaturated Soils, April, Arizona*. Vol. 2, 2300-2311.
106. Chan, S. H., Lam, S. Y., Ng, C. W. W. and Leung, C. F. (2006). Axial load effect on piles with locked-in negative skin friction in consolidating soil. *Proc. of 6<sup>th</sup> Int. Conf. Physical Modelling in Geotechnics (TC2), Hong Kong*. Vol. 2, 807-813.
107. Zhang, M., Ng, C. W. W., Take, W.A., Pun, W.K., Shiu, Y.K. & Chang, G.W.K. (2006). The role and mechanism of soil nails in liquefied loose sand fill slopes. *Proc. of 6<sup>th</sup> Int. Conf. Physical Modelling in Geotechnics (TC2), Hong Kong*. Vol. 1, 391-396.
108. Lee, N.L. & Ng, C.W.W. (2006). Centrifuge modelling of vacuum preloading with vertical sand drain. *Proc. of 6<sup>th</sup> Int. Conf. Physical Modelling in Geotechnics (TC2), Hong Kong*. Vol. 1, 545-551.
109. Zhou, R.Z.B., Ng, C. W. W., Zhang, E.M., Pun, W.K., Shiu, Y.K. & Chang, G.W.K. (2006). The effects of soil nails in a dense steep slope subjected to rising groundwater. *Proc. of 6<sup>th</sup> Int. Conf. Physical Modelling in Geotechnics (TC2), Hong Kong*. Vol. 1, 397-402.
110. Ng, C.W.W. (2006). Invited lecture: The performance of large-diameter bored piles and large-section barrettes in decomposed geomaterials in Hong Kong. *Proc. of Korean Geotechnical Engineering Conference, Daegu*, 27-28 Oct., 2006. 334-408.
111. Ng, C.W.W. & Leung, E.H.Y. (2006). Invited paper: Small-strain stiffness of granitic and volcanic saprolites in Hong Kong. *International Workshop on Natural Soil 2006*, Dec. Singapore. Vol. 4, 2507-2538.
112. Ho, K.M.Y., Tse, J.M.K. & Ng, C.W.W. (2007). Influence of drying and wetting history and particle size on state-dependent soil-water characteristic curves (SDSWCCs). *Proc. 3<sup>rd</sup> Asian Regional Conference on Unsaturated Soils*, 21-23 April, Nanjing, China. 213-218. Science Press, Beijing. ISBN 7-03-018739-0/TU.535.
113. Chen, R. & Ng, C.W.W. (2007). Influence of duration of suction equilization on subsequent shearing of an unsaturated soil. *Proc. 3<sup>rd</sup> Asian Regional Conference on Unsaturated Soils*, 21-23 April, Nanjing, China. 457-462. Science Press, Beijing. ISBN 7-03-018739-0/TU.535.
114. Law, R.P.H., Zhou, G.D., Chan, Y.M. & Ng, C. W. W. (2007). Investigations of fundamental mechanisms of dry granular debris flow. *Proc. 16<sup>th</sup> Southeast Asia Geot. Conf. 8-11 May, Malaysia*, 781-786.
115. Ng, C.W.W. & Xu, J. (2007). Keynote lecture on “Anisotropic small strain shear moduli of unsaturated completely decomposed tuff.” *Proc. 3<sup>rd</sup> Asian Conference on Unsaturated Soils*, 21-23 April, Nanjing. 47-65. Science Press, Beijing. ISBN 7-03-018739-0/TU.535.

116. Lee, N.L., Ng, C.W.W., Hu, L.W. & Zhang, L.M. (2007). Modelling of undersea vacuum preloading with vertical drains and drain groups in a geotechnical centrifuge. *Proc. 16<sup>th</sup> Southeast Asia Geot. Conf. 8-11 May, Malaysia*. 453-459.
117. Cheuk, C.Y., Ng, C.W.W., Wang, Y.H., Tham, L.G., Yin, J.H. & Wong, R.H.C. (2007). Laboratory testing of soils and rocks in Hong Kong's universities. *Proc. of the Geotechnical Division's Annual Seminar, Hong Kong Institution of Engineers (HKIE)*, 33-53.
118. Ng, C.W.W., Pun, W.K., Kwok, S.S.K., Cheuk, C.Y., & Lee, D.M. (2007). Centrifuge modelling in engineering practice in Hong Kong. *Proc. of the Geotechnical Division's Annual Seminar, Hong Kong Institution of Engineers (HKIE)*, 55-68.
119. Xu, G.M. & Ng, C.W.W. (2007). Centrifuge modelling of a quay wall constructed of large-diameter bottomless cylinders. *Proc. 13<sup>th</sup> Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, 10-14, Kolkata*. Vol.1, Part 1, 367-370.
120. Zhang, L.M., Ng, C.W.W. & Chan, F. (2007). Centrifuge modelling of construction of jacked pile in decomposed granite. *Proc. 13<sup>th</sup> Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, 10-14, Kolkata*. Vol.1, Part 1, 293-296. Allied Publishers Private Ltd, India.
121. Moh, Z.C., Chin, C.T., Chao, H.C, Ip, H.Y.K. & Ng, C.W.W. (2007). Influence of the construction of a bored pile on adjacent piled foundation. *Proc. 13<sup>th</sup> Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, 10-14, Kolkata*. Vol.1, Part 1, 363-366. Allied Publishers Private Ltd, India.
122. Hu, L.W., Lee, N.L. & Ng, C.W.W. (2007). Field observations of soft soil subjected to vacuum preloading. *Proc. 13<sup>th</sup> Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, 10-14 December, Kolkata*. Vol. 1, Part 2, 799-802. Allied Publishers Private Ltd, India.
123. Ng, C.W.W. (2007). Keynote paper: Liquefied flow and non-liquefied slide of loose fill slopes. *Proc. 13<sup>th</sup> Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, 10-14 December, Kolkata*. Vol. 2. In press. Allied Publishers Private Ltd, India.
124. Ng, C.W.W. & Xu, J. (2007). Invited keynote: Theoretical and experimental study of small-strain stiffness of decomposed geomaterials. *10<sup>th</sup> National conference on SMGE*, 1-4 Nov. Chongqing.
125. Ng, C.W.W. & Chen, R. (2008). Invited keynote: Recompacted, natural and in-situ properties of unsaturated decomposed geomaterials. *Proc. 3<sup>rd</sup> Int. Conf. on Site Characteristics (TC16)*. 1-4 April 2008, Taipei. 117-137. Ed. A.B. Huang & P.W. Mayne, Taylor and Francis.
126. Liu, T., Liu, G.B. & Ng, C.W.W. (2008). The construction and field monitoring of a deep excavation in soft soils. *Proc of 6<sup>th</sup> Int. Sym. on Geotechnical Aspects of Underground Construction in Soft Ground (TC28)*. 9-11 April, Shanghai. 433-439.
127. Liu, G.B., Jiang, J. & Ng, C.W.W. (2008). Performance of a Deep Excavation in Soft Clay. *Proc of 6<sup>th</sup> Int. Sym. on Geotechnical Aspects of Underground Construction in Soft Ground (TC28)*. 9-11 April, Shanghai. 419-433.
128. Ng, C.W.W. (2008). Invited special lecture: Deformation and failure mechanisms of loose and dense fill slopes with and without soil nails. *Proc. of 10<sup>th</sup> Int. Sym. On Landslides and Engineered Slopes*. 30 June – 4 July, 2008, Xi'an, China. Vol. 1, 159-177.

129. Law, R.P.H., Zhou G.D., Ng, C.W.W. & Tang, W.H. (2008). Experimental and three-dimensional numerical investigations of the impact of dry granular flow on a barrier. *Proc. of 10<sup>th</sup> Int. Sym. On Landslides and Engineered Slopes*. 30 June – 4 July, 2008, Xi'an, China. Vol. 1, 415-420.
130. Xu, J., Ng, C.W.W. & Yung, S.Y. (2008). Drying and wetting effects on shear wave velocity of an unsaturated soil. *Proc. of 1<sup>st</sup> European Conf. on Unsaturated Soils*, 2-4 July 2008. Durham, UK. 525-530.
131. Tse, E. Y. M. & Ng, C. W. W. (2008). Effects of drying and wetting cycles on unsaturated shear strength. *Proc. of 1<sup>st</sup> European Conf. on Unsaturated Soils*, 2-4 July 2008. Durham, UK. 481-486.
132. Li, L. Wang, S.J., Chen, R., Ng, C.W.W. & Li, Z.X. (2008). Shear strength of an unsaturated loess soil reinforced by Potassium Silicate (PS) upon saturation. *Proc. of Int. Sym. on Conservation of Ancient Sites*, Dunhuang, China, 291-295.
133. Hu, P., Cai, Q.P., Luo, G.Y., Ding, Y.H., Dong, M., Hu, L.W. , Hou, Y.J. & Ng, C.W.W. (2009). Centrifuge modeling of failure patterns in mixed soil layers induced by normal faults. *Proc. of the 17<sup>th</sup> ICSMGE*, 5-9 Oct. Alexandria, Egypt. Vol.1, 594-597. Ed. M. Hamza, M. Shahien and Y. El-Mossallamy, Publisher: Millpress.
134. Li, L., Wang, S.J., Chen, R., Ng, C.W.W. & Li, Z.X. (2009). The reinforcement mechanism and effect of potassium silicate solutions in an unsaturated loess soil subjected to saturation. *Proc. of the 17<sup>th</sup> ICSMGE*, 5-9 Oct. Alexandria, Egypt. Vol.1, 789-792. Ed. M. Hamza, M. Shahien and Y. El-Mossallamy, Publisher: Millpress.
135. Zhou, G.D., Law, R.P.H. & Ng, C.W.W. (2009). The mechanisms of debris flow: a preliminary study. *Proc. of the 17<sup>th</sup> ICSMGE*, 5-9 Oct. Alexandria, Egypt. Vol. 2. 1570-1573. Ed. M. Hamza, M. Shahien and Y. El-Mossallamy, Publisher: Millpress.
136. Leung, A. K. & Ng, C. W. W. (2009). Experimental study of the soil-water characteristics of a decomposed soil using the relative humidity (RH) control technique. *Proc. 4<sup>th</sup> Asia-Pacific Conf. on Unsaturated Soils*, 23-25 Nov. Newcastle, Australia. Vol. 1, 199-204. CRC Press – Taylor & Francis Group.
137. Xu, J. & Ng, C. W. W. (2009). Variations in mid-plane pore water pressure and anisotropic shear stiffness during suction equalization. *Proc. 4<sup>th</sup> Asia-Pacific Conf. on Unsaturated Soils*, 23-25 Nov. Newcastle, Australia. Vol. 1, 185-190. CRC Press – Taylor & Francis Group.
138. Wong, K. S., Ng, C. W. W. , Chen, Y. M. & Bian, X. C. (2009). Three-dimensional Analysis of Passive Failure of Circular Tunnel Face in Layered Ground. *Proc. 2<sup>nd</sup> International Conference on Computational Methods in Tunnelling*, 9-11 September, Ruhr University, Bochum, Germany. Vol.2, 841-848. Edited: Meschke et al. Publisher: Aedificatio Publishers.
139. Ng, C.W.W. (2009). Invited special lecture: What is static liquefaction failure of loose fill slopes ? *Proc. of 1<sup>st</sup> Italian Workshop on Landslides*, 8-10 June, Napoli, 2009. Vol.1, 91-102.
140. Ng, C. W. W., Xu, J. & Zhan, L.T. (2009). Keynote paper: The Mega South-North Water Transfer Project in China – Unsaturated Soil Mechanics Aspects. *Proc. 4<sup>th</sup> Asia-Pacific Conf. on Unsaturated Soils*, 23-25 Nov. Newcastle, Australia. Vol. 2, 545-564. CRC Press – Taylor & Francis Group.
141. Hu, P., Ding, Y.H., Cai, Q.P., Luo, G.Y., Ng, C.W.W. & Hou, Y.J. (2010). Centrifuge modeling of the influence of pre-existing fractures in multilayered soils on ground deformations. *Proc. 5<sup>th</sup> Int. Conf. on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics*. 24-29 May, San Diego. Paper 1.16b. page 1-8.

142. Wong, K. S., Ng, C. W. W. , Chen, Y. M. & Bian, X. C. (2010). Centrifuge modelling of passive failure of tunnel face in saturated sand. *Proc. of 7<sup>th</sup> Int. Conf. Physical Modelling in Geotechnics (TC2)*, Zurich, Switzerland. Vol. 1, 599-604.
143. Hu, L.W., Lee, N.L. & Ng, C.W.W. (2010). Centrifuge modelling of underwater vacuum preloading of soft clay using different drain spacings. *Proc. of 7<sup>th</sup> Int. Conf. Physical Modelling in Geotechnics (TC2)*, Zurich, Switzerland. Vol. 2, 1327-1332.
144. Zheng, G., Peng, S.Y., Diao, Y. & Ng, C.W.W.W. (2010). In-flight investigation of excavation effects on smooth single piles. *Proc. of 7<sup>th</sup> Int. Conf. Physical Modelling in Geotechnics (TC2)*, Zurich, Switzerland. Vol. 2, 847-852.
145. Zheng, G., Wei, S.W., Peng, S.Y., Diao, Y. & Ng, C.W.W.W. (2010). Centrifuge modelling of the influence of basement excavation on existing tunnels. *Proc. of 7<sup>th</sup> Int. Conf. Physical Modelling in Geotechnics (TC2)*, Zurich, Switzerland. Vol. 1, 523-527.
146. Leung, A. K. & Ng, C. W. W. (2010). Back-analysis of infiltration characteristic of a saprolitic hillslope by considering permeability heterogeneity. *Proc. of 5<sup>th</sup> International Conference on Unsaturated Soils (TC6)*. 6-8 September, Barcelona, Spain. In Press.
147. Ng, C. W. W. and Leung, A. K. (2010). General/State-of-the-Art Report on Geotechnical problems and case histories from the perspective of unsaturated soil mechanics. *Proc. of 5<sup>th</sup> International Conference on Unsaturated Soils (TC6)*. 6-8 September, Barcelona, Spain. In Press.
148. Cai, Q.P., Hu, P., Van Laak, Ng, C.W.W. & Chiu, A.C.F. (2010). Investigation of boundary conditions for simulating normal fault propagation in centrifuge. *Proc. 4<sup>th</sup> Int. Conf. on Geot. Engg, 2-3 November*, Tehran, Iran. In Press.
149. Soomro, M.A. & Ng, C.W.W. (2010). Study of the capacity of a pile group due to tunnelling by three-dimensional numerical analysis. *Proc. 4<sup>th</sup> Int. Conf. on Geot. Engg, 2-3 November*, Tehran, Iran. In Press.
150. Lim, K.S.G., Hong, C.Y., Wang, Y. & Ng, C.W.W. (2010). Soil-Structure Interaction of Tunnel Excavation Beneath Existing Buried Pipeline. *Proc. 4<sup>th</sup> Int. Conf. on Geot. Engg, 2-3 November*, Tehran, Iran. In Press.

#### **D. Technical and Consulting Reports**

1. Ng, C.W.W., Nash, D.F.T. & Lings, M.L. (1990). *Underground car park at Lion Yard, Cambridge. Factual report on field monitoring*. Dept. of Civ. Eng., University of Bristol No. UBCE-SM-90-1 & 2.
2. Morgan, V.R., Ng, C.W.W. & Springman, S.M. (1993). *Uplift resistance of buried pipelines in a sand/clay matrix at one gravity*. A.N. Schofield & Associates' data report, Cambridge University.
3. Ng, C.W.W. & Springman, S.M. (1993). *Uplift resistance of buried pipelines in a mini-drum centrifuge*. A.N. Schofield & Associates' data report, Cambridge University.
4. Ng, C.W.W., J. Forbes & A.J. Powderham (1993). *Study of reinforced concrete design criteria and concrete mix requirements for below ground construction*. Transport Research Laboratory - Phase I Contractor's Research Report.

5. Springman, S.M., Ng, C.W.W. & Ellis, E.A. (1995). *Centrifuge and Analytical Studies of Full-height Bridge Abutment on Piled Foundation Subjected to Lateral Loading*. Project Report 98 - E450A/BG, Transport Research Laboratory, The Department of Transport.
6. Ng, C.W.W. (1995). *Cyclic loading of sand behind a spread-base integral bridge abutment*. Transport Research Laboratory - Data Reports IV & V.
7. Dasari, G.R. Bolton, M.D. & Ng, C.W.W. (1995). Small strain measurement using modified LDTs. Technical Report CUED/D-SOILS/TR275. Cambridge University Engineering Department.
8. Ng, C.W.W. (1995). *Measurement of small strains using semiconductors in centrifuge tests*. Technical Report CUED/D-SOILS/TR282. Cambridge University Engineering Department.
9. Springman, S.M. Norrish, A.R.M. & Ng, C.W.W. (1996). *Cyclic loading of sand behind integral bridge abutment*. TRL Report 146, the Department of Transport, U.K.
10. Ng, C.W.W. & Manjunath, V.R. (1997). *Pilot Study of Interfacial Friction between Debris and Grass*. Geotechnical Engineering Office of the Hong Kong Special Administrative Region.
11. Ng, C.W.W. & Manjunath, V.R. (1998). *Direct Shear Box Tests on No-fines Concrete Specimens*. JMK Consulting Engineers, Hong Kong.
12. Ng, C.W.W. & Pang, Y.W. (1998). *Ling Ping Road Landslide Investigation - Specialist Testing of Unsaturated Soils*. Geotechnical Engineering Office of the Hong Kong Special Administrative Region, Hong Kong.
13. Tung, Y.K., Ng, C.W.W. & Liu J.K. (1998). *Lai Ping Road Landslide Investigation – Three Dimensional Groundwater Flow Computation*. Geotechnical Engineering Office of the Hong Kong Special Administrative Region, Hong Kong.
14. Ng, C.W.W. (2000). *Independent Review of Zone of Influence on the Desk Study for Identification of Public Sewers and Drains Behind and Adjacent to Slopes and Retaining Walls*. Drainage Services Department of the Hong Kong Special Administrative Region, Hong Kong.
15. Cheuk, C.Y., Ng, C.W.W. & Sun, H.W. (2000). *Numerical analysis of the behaviour of recompacted fill slopes*. Geotechnical Engineering Office of the Hong Kong Special Administrative Region, Hong Kong.
16. Ng, C.W.W. & Leung, H.Y. (2001). *Tin Shui Wai – Cyclic stress path test*. Babbie Asia Limited.
17. Ng, C.W.W. & Hou, Y.J. (2002a). *Dynamic Centrifuge Tests – Factual Report on the Study of Dense Level Ground under Earthquakes*. National Chiao-Tung University, Taiwan.
18. Ng, C.W.W. & Hou, Y.J. (2002b). *Dynamic Centrifuge Tests – Factual Report Dense Sand Embankment under Earthquake*. National Chiao-Tung University, Taiwan.
19. Chiu, A. C.F. & Ng, C.W.W. (2003). *Triaxial Tests on Loose Granitic Fill for Upgrading Loose Fill Slopes for Upper Wong Tai Sin Estate Development*. The Hong Kong Housing Authority of the Hong Kong Special Administrative Region.
20. Leung, E.H.Y. & Ng, C.W.W. (2003a). *Static Triaxial Tests for the Determination of Soil Stiffness of Completely Decomposed Tuff*. Ove Arup and Partners (HK) Ltd.
21. Leung, E.H.Y. & Ng, C.W.W. (2003b). *Cyclic Triaxial Tests for the Determination of Soil Stiffness of Completely Decomposed Tuff and Completely Decomposed Granite*. Ove Arup and Partners (HK) Ltd.
22. Zhang, M. & Ng, C.W.W. (2003). *Centrifuge Modelling Tests of Soil-nailed Fill Slopes*. Geotechnical Engineering Office, HKSAR.



23. Han, W.X., Shen, Z.J. & Ng, C.W.W. (2003). *Performance of overconsolidated clay slope subjected to rainfall infiltration (in Chinese)*. Nanjing Hydraulic Research Institute, China.
24. Ng, C.W.W., Chan, C.Y. & Chan S.H. (2004). *Centrifuge modelling of negative skin friction on floating and end bearing piles*. Zhejiang University.
25. Ng, C.W.W., Chiu, A. C.F., Chen, Z.Y. & Zhou, Z.B. (2004). *Final Report for Upgrading Loose Fill Slopes for Upper Wong Tai Sin Estate Development*. The Housing Department of the HKSAR.
26. Ho, K.M.Y. & Ng, C.W.W. (2005). *Slope No. 11SW-D/FRI behind Hong Kong Sanatorium and Hospital*. Final preliminary report. Fugro (HK) Ltd.
27. Ng, C.W.W., Chen, R. & Ho, K.M.Y. (2005). Test report on “*Anisotropically consolidated constant q stress path tests on block samples from Fu Yung Shan*.” Maunsell Geotechnical Services (Ltd).
28. Ho, K.M.Y., Xu, J.J. & Ng, C.W.W. (2005). Laboratory report on “*Seven Oedometer & Eight CRS Consolidation Tests*”. Vibro (HK) Ltd.
29. Ng, C. W. W., Zhang, M. & Zhou, R. Z. B. (2006). Final report on “*Centrifuge Modelling of Use of Soil Nails in Loose and Dense Fill slopes*”. Geotechnical Engineering Office, Civil Engineering and Development Department of HKSAR.
30. Zhou, Z.B. & Ng, C.W.W. (2006). Factual Report on “*Centrifuge modelling of fault movements*.” In Chinese. Nanjing Hydraulic Research Institute, China.
31. Tse, J. M. K. & Ng, C. W. W. (2006). Interpreted Report on “*Measurements of State-dependent Soil-water Characteristic Curves (SDSWCCs) - Tsing Shan Foothills, Tuen Mun*.” Ove Arup and Partners (HK) Ltd.
32. Ng, C.W.W. (2007). Independent Review Report on “*Geotechnical Parameters for the KCRC Kowloon Southern Link (Contracts KDB300 & KDB400)*”. China State Construction Engineering Hong Kong Ltd.
33. Ng, C.W.W., Lee, N.L. & Hu, L.W. (2007). Factual Report on “*Centrifuge Modelling of Dynamic Response of Reclamation Sites in Singapore*.” Nanyang Technological University, Singapore.
34. Ng, C.W.W., Dong, M., Cai, Q.P., Luo, G.Y. & Hou, Y.J. (2008). Report on “*Centrifuge modelling of four types of fault movements*”. In Chinese. Beijing Seismological Bureau. China.
35. Ng, C.W.W., Zhou, Z.B. & Chan, Y.M. (2008). Final report on “*Centrifuge modelling of CDG fill slopes reinforced with different nail heads and nail inclinations*. Geotechnical Engineering Office, Civil Engineering and Development Department of HKSAR.
36. Peng, S.Y. & Ng, C. W. W. (2008). Report on “*Centrifuge modeling of the influences of a bored pile construction (soft toe effects)*”. Moh and Associates Inc., Taiwan, ROC.
37. Ng, C.W.W. (2008). Independent Review Report on “*CLP Power Hong Kong Ltd – Meteorological Mast - Centrifuge Compression Loading Tests*”. China Light and Power and Ove Arup and Partners (HK).
38. Ng, C.W.W., Cui, Z.D. and Zhou, R. Z.B. (2009). Report on “*Centrifuge modelling of railway embankments supported by stone columns in Malaysia*”. Keller (M) Sdn Bhd, Malaysia.
39. Ng, C.W.W. and Zhou, R. Z.B. (2009). Report on “*Centrifuge modelling of slope protection schemes for the South-North Water Transfer Project – middle route (南水北调中线工程中膨胀土渠坡离心模型试验研究报告)*”. Yangtze River Science and Research Institute (长江水利委员会长江科学院), China.

40. Ng, C.W.W. (2009). Independent Expert Review Report on “Central Kowloon Route and Widening of Gascoigne Road Flyer – Investigation”. Highways Department of HKSAR & Joint Venture (JV) of Mott MacDonald – Meinhardt – Hyder.
41. Ng, C.W.W. & Ma, S.K. (吴宏伟, 马少坤) (2009). Centrifuge investigation of rapid drawdown of ground water on slope stability (离心模型试验研究报告-水库蓄水及水位骤降条件下滑坡体稳定). Jinan University (暨南大学).
42. Ng, C.W.W., Cui, Z.D. & Li, H. P. (吴宏伟, 崔振东, 刘寒鹏) (2009). Centrifuge Modelling of Surface Ground Settlements due to Pile Group Interaction (建筑荷载引起地面沉降的离心试验模拟试验报告). Tianjin Institute of Urban Construction (天津城市建设学院).
43. Ng, C.W.W. & Hong Yi (吴宏伟, 洪义) (2010). Centrifuge modelling of settlement behaviour of reclaimed land subjected to different arrangement of drains in Tianjin (南港工业区吹填土处理工后沉降量预测模拟试验). Tianjin Site Investigation and Technological Institute (天津市勘察院).
44. Ng, C.W.W. (2010). Expert Report on Flooding At Ho Pui Chuen, Ma On Kong, Pat Heung, New Territories. Ho, Tse, Wai & Partners (Solicitors & Notaries).