

**MALAYSIAN  
GEOTECHNICAL  
PAPERS**



**GEOTECHNICAL  
POSTGRADUATE THESES  
BY MALAYSIANS**



## GEOTECHNICAL POSTGRADUATE THESES BY MALAYSIANS

Name	Year	Degree	Title	University
Raymond Nen Yong	1958	MEng	Some physical characteristics of frozen soil	McGill University, Canada
Raymond Nen Yong	1960	PhD	Some fundamental considerations in the mechanics of frozen soils	McGill University, Canada
Ting Wen Hui	1968	PhD	Some effects of history on the stress-strain behaviour of Kaolin	University of Cambridge, UK
A.S. Balasubramaniam	1969	PhD	Some factors influencing the stress strain behaviour of clay	University of Cambridge, UK
Chan Sin Fatt	1973	MEngSc	The behaviour of piles in soils derived from granite and shale	Universiti Malaya, Malaysia
Chan Sin Fatt	1976	PhD	The behaviour of piles subjected to static and repeated loads	University of Sheffield, UK
Toh Cheng Teik	1978	PhD	Theoretical and experimental investigations into the behaviour of soft-sensitive clays	Monash University, Australia
Ibrahim Komoo	1979	PhD	An investigation of stress distribution of igneous rocks under percussive drill bit penetration using strain gauging and photoelastic coating techniques	University of Strathclyde, UK
Yong Kwet Yew	1979	PhD	A laboratory study of shaft resistance of piles	University of Sheffield, UK
Mun Kwai Peng	1980	MEng	Testing of a Malaysian residual soil in plain strain apparatus	Universiti Malaya, Malaysia
Ooi Teik Aun	1980	PhD	The loading behaviour of long piles	University of Sheffield, UK
Yap Leong Ping	1980	PhD	Study of the behaviour of vertical rock anchors using the finite element method	University of Aberdeen, Scotland
Wong Fook Keong	1981	PhD	Inclined and eccentrically loaded square foundations on sand	University of Strathclyde, UK
Aziz Mustafa	1983	MSc	Usage of geotextiles in deep wells	University of Birmingham, UK
John Kuna Raj	1983	PhD	A study of residual soils and their cut slope stability in selected areas of Peninsular Malaysia	Universiti Malaya, Malaysia
Affendi Murthy Lowe Abdullah	1984	MEng	A monograph of engineering properties of coastal sub-soils in the Malaysian Peninsula	Asian Institute of Technology, Thailand
Azlan Abdul Aziz	1984	MEng	Effects of the number of layers of soil in the modified compaction tests	University of Melbourne, Australia

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Name	Year	Degree	Title	University
Faisal Ali	1984	PhD	The time-dependent behaviour of clay during cylindrical cavity expansion	University of Sheffield, UK
Gue See Sew	1984	Dphil	Ground heave around driven piles in clay	Oxford University, UK
Lui Shau Sing	1984	MEng	A brief review on the basic soil properties of coastal soil in West Malaysia	Asian Institute of Technology, Thailand
Ramli Mohamad	1985	PhD	Evaluation of seismically-induced liquefaction flow failure of earth dams	Rensselaer Polytechnic Institute, USA
Ideris Zakaria	1986	MSc	The effect on the uplift resistance of anchors of ground disturbance during placing	University of Sheffield, UK
Nasly Mohamed Ali	1986	MSc	An analysis of wave propagation due to pile driving vibrations by the finite element method	University of Strathclyde, UK
Nik Ramlan Nik Hassan	1986	PhD	The influence of creep in the primary consolidation	Southern Methodist University, USA
Tan Yang Kheng	1986	MSc	The forces induced in the pile due to nearby surface loads	Imperial College of Science, Technology and Medicine, UK
I Che-Ing	1987	DPhil	An analytical study of the cone penetration test	Oxford University, UK
Mohamed Zahry Othman	1987	MPhil	Electro-osmosis of clay	Sunderland Polytechnic, UK
Mohd Raihan Taha	1987	MSc	Effects of types of loading on the dynamic properties of soils	University of Maryland, USA
Fauziah Ahmad	1989	PhD	Model studies of the influence of the lateral boundary movements on earth pressures	University of Strathclyde, UK
Jhin Thiam Chin	1989	MEng	Analysis of piles and pile groups embedded in a layered half space	National University of Singapore
Mohd Asbi Othman	1989	PhD	Highway cut slope instability problems in West Malaysia	University of Bristol, UK
Ong Chu Yin	1989	MSc	Geologi kejuruteraan lebuh raya Ipoh-Changkat Jering, Perak (Engineering geology of Ipoh-Changkat Jering, Perak highway)	Universiti Kebangsaan Malaysia

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Name	Year	Degree	Title	University
Ooi Lean Hock	1989	PhD	The interface behaviour of socketed pPiles	University of Sydney, Australia
Roslan Hashim	1989	PhD	Numerical study on time dependant cavity expansion in a normally consolidated clay	University of Sheffield, UK
Desa Ahmad	1990	PhD	An Investigation into wetland soil-implement mechanics	Cranfield Institute of Technology, UK
Hoe I. Ling	1990	MSc	Hydraulic and mechanical properties of non-woven geotextiles under soil confinement conditions	University of Tokyo, Japan
Ismail Bakar	1990	PhD	Mechanical properties and behaviour of silicate-ester and acrylamide materials	University of Bradford, UK
Jasni Yaakob	1990	MSc	Teknik penentuan sifat kejuruteraan batuan meta-sedimen terluluhawa (Techniques to determine the engineering properties of weathered meta-sedimentary rocks)	Universiti Kebangsaan Malaysia
Jusoh Besar	1990	PhD	Load capacity of pile foundations: Load test interpretation hypotheses	University of Wales, Cardiff, UK
Raftah Mahfar	1990	MSc	Prestasi cerucuk kayu terproses (Performance of processed timber piles)	Universiti Kebangsaan Malaysia
Azmi Abu Kassim	1991	MSc	Kelakuan Lempung lembut Kelang dalam ujian riceh mudah (Behavior of Kelang soft clay in simple shear test)	Universiti Kebangsaan Malaysia
Jamilah Jaadil	1991	MSc	Kelakuan ubahbentuk lempung lembut Kelang dalam ujian 1-dimensi (Deformation behavior of Kelang soft clay in 1-dimensional Tests)	Universiti Kebangsaan Malaysia
Loke Kean Hooi	1991	PhD	Effects of lateral boundary yielding on large scale unreinforced and reinforced soil walls	University of Strathclyde, UK
Philip Soon Kang Ooi	1991	PhD	Design methods for deep foundations	Virginia Polytechnic Institute and State University, USA
Tan Leong Chee	1991	MEng	Performance of granular columns In soft clay	Nanyang Technological University, Singapore

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Name	Year	Degree	Title	University
Han Khee Kwong	1992	MEng	Design of foundations in Singapore bouldery clay and the influence of boulders on soil properties	Nanyang Technological University, Singapore
Jimjali Ahmed	1992	MSc	Kekuatan dan ubahbentuk lempung Kelang (Strength and deformation of Kelang clay)	Universiti Kebangsaan Malaysia
Liang Kee Ming	1992	MEng	Field performance of layered clay-sand reclamation scheme	National University of Singapore
Rosely Ab. Malik	1992	PhD	Pile foundation design: Interrelation of safety measures from deterministic and reliability based methods	Michigan state University, USA
Tang Sek Kwan	1992	MEng	Arching in piled embankments	Nanyang Technological University, Singapore
Che Ariffin Hassan	1993	PhD	The use of flexible transverse anchors in reinforced soil	University of Newcastle-Upon-Tyne, UK
Goh Teik Cheong	1993	PhD	An experimental study of sand capping in land reclamation	National University of Singapore
Hoe I. Ling	1993	PhD	Performance of geosynthetic-reinforced cohesive soil mass at plane strain compression	University of Tokyo, Japan
Jhin Thiam Chin	1993	PhD	Axial pile response in calcareous sediment	University of Sydney, Australia
Liew Shaw Shong	1993	MSc	Application of instrumentation in geotechnical engineering	University of New South Wales, Australia
Md. Azman Md. Amin	1993	PhD	Engineering characteristics of cement treated Malaysian black soil	Universiti Teknologi Malaysia
Sobri Aziz	1993	MSc	Engineering characteristics of the coastal soft soils of west Peninsular Malaysia	University of Strathclyde, UK
Sofiana Balkhis Talha	1993	MSc	The engineering aspects of meta-sedimentary soils in Malaysia	Imperial College of Science, Technology and Medicine, UK



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Name	Year	Degree	Title	University
Wong Soo Kok	1993	MEng	Stabilization of soft marine clay using cement or lime	Nanyang Technological University, Singapore
Abu Bakar Hamidon	1994	PhD	Some laboratory studies of anisotropy of permeability of kaolin	University of Glasgow, UK
Mohamad Razip Selamat	1994	PhD	Rock slope stability incorporating blast vibrations	University of Queensland, Australia
Mohd. Asri Ab. Rahim	1994	PhD	A numerical model to incorporate the influence of shrinkage cracks on the transient moisture movement through unsaturated soil	Texas Tech University, USA
Nor Azazi Zakaria	1994	PhD	Construction on supersoft soil using geogrid	University of Newcastle-Upon-Tyne, UK
Ramli Nazir	1994	PhD	The moment carrying capacity of short piles in sand	University of Liverpool, UK
Tan Yean Chin	1994	MEng	Analysis of trial embankments at the Muar flat site, Malaysia	Asian Institute of Technology, Thailand
Ahmad Nadzri Hussein	1995	PhD	Formation properties and behaviour of coastal soft soil deposits at Perlis and other sites in Peninsular Malaysia	University of Strathclyde, UK
Gui Meen Wah	1995	PhD	Centrifuge and numerical modelling of pile and penetrometer in sand	University of Cambridge, UK
Husaini Omar	1995	MSc	Comparative testing of the new mini pressuremeter tensile testing device and Brazilian test	University of Leeds, UK
Ideris Zakaria	1995	PhD	Yielding of unsaturated soil	University of Sheffield, UK
Lim Teik Thye	1995	MEng	Shear strength characteristics and rainfall-induced matric suction changes	Nanyang Technological University, Singapore
Ooi Inn Koon	1995	MEng	Raft foundations for high-rise buildings on the bouldery clay of Singapore	Nanyang Technological University, Singapore
R. Nithiaraj	1995	MEng	Geotechnical parameters of residual soils and long-term stability of ground anchored cut slopes in Kampar, Malaysia	Asian Institute of Technology, Thailand

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Name	Year	Degree	Title	University
Shahul Hameed Mydin	1995	MEng	Characteristics of statically compacted unsaturated soil	Nagaoka University of Technology, Japan
Affendi Murthy Lowe Abdullah	1996	PhD	Field and laboratory study on unsaturated residual soil in relation to slope stability analysis	Universiti Malaya, Malaysia
Aminaton Marto	1996	PhD	Volumetric compression of a silt under periodic loading	University of Bradford, UK
Azman Kassim	1996	MEng	Engineering properties of undisturbed highly weathered Malaysian granite	Universiti Teknologi Malaysia
Law Pak Chong	1996	MEng	Dynamic response of a soil column	Nanyang Technological University, Singapore
Mohd. Raihan Taha	1996	PhD	Micellar electrokinetic remediation of TNT contaminated soil	Louisiana State University, USA
Poh Teoh Yaw	1996	MEng	Deep excavations in stiff soils In Singapore	Nanyang Technological University, Singapore
Tew Kia Hui	1996	MEng	Production of soil erodibility nomograph in relation to soil erosion issues	Universiti Teknologi Malaysia
Damanhuri Jamalludin	1997	MSc	Stability and displacement of geosynthetic reinforced earth retaining wall	Yamaguchi University, Japan
Han Khee Kwong	1997	PhD	Effect of hysteresis, infiltration and tensile stress on the strength of an unsaturated soil	Nanyang Technological University, Singapore
Loh Chang Kaan	1997	MEng	Bleeding and channelling of model bored pile	National University of Singapore
Mahadzer Mahmud	1997	PhD	Centrifuge modeling of an innovative, rapidly-installed and economical MSES for marginally stable slopes	Rensselaer Polytechnic Institute, USA
Rosli Hamir	1997	PhD	Some aspects and application of electrically conductive geosynthetic materials	University of Newcastle-Upon-Tyne, UK
Tan Leong Chee	1997	PhD	Utilisation of municipal fly ash - Environmental and geotechnical aspects	Nanyang Technological University, Singapore

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Name	Year	Degree	Title	University
Ali Mahmood	1998	MSc	Model tests of a reinforced unpaved road constructed over peaty clayey soil	Universiti Sains Malaysia,
Anuar Kasa	1998	MSc	Field behaviour of a reinforced modular block wall with a residual soil as a backfill	Universiti Malaya, Malaysia
Choong Foong Heng	1998	MSc	Volume change behaviour of an unsaturated residual soil	Universiti Malaya, Malaysia
Khairul Anuar Kassim	1998	PhD	The geotechnical properties of lime and ash stabilised cohesive soils and their use in design	University of Newcastle-Upon-Tyne, UK
Norhan Abd. Rahman	1998	PhD	Finite element analysis of multi-phase heat flow and pollutant transport in deforming porous media for subsurface systems	University of Wales, Swansea, UK
Abdul Aziz Hanifah	1999	PhD	A theoretical evaluation of guided waves in deep foundations	Northwestern University, USA
Chosun Eko Sulistyono	1999	PhD	An appraisal of moment capacity of short pile subjected to lateral load in sand	Universiti Teknologi Malaysia
Md. Kamal Hossain	1999	PhD	Shear strength characteristics of decomposed granite residual soils in Malaysia	Universiti Kebangsaan Malaysia
Yet Nai Song	1999	PhD	Time-dependent behaviour of pile in sand	National University of Singapore
Anwar Khatib	2000	MEng	Keupayaan galas model asas rakit berusuk (Bearing capacity of ribbed mat foundation model)	Universiti Teknologi Malaysia
Basri Syarif	2000	MEng	Ciri-ciri pengukuhan tanah liat dengan perparitan tegak (Consolidation characteristics of clay with vertical drain)	Universiti Teknologi Malaysia
Chong Yee Ling	2000	MEng	Performance of dredged clay as reclamation fill	National University of Singapore
Halimah Mat Desa	2000	MEng	Tanah baki granit sebagai bahan pelapik kambusan (Granite residual soil as landfill liner material)	Universiti Kebangsaan Malaysia
Kok Kai Chern	2000	MEng	Physical, geochemistry, and mineralogy studies on the strength development of lime stabilised cohesive soil	Universiti Teknologi Malaysia

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Name	Year	Degree	Title	University
Mohd Fairuz Mohd Isa	2000	MEng	Model studies on the effect of deep excavation on pore water pressure and settlement	Universiti Teknologi Malaysia
Ng Chew Chiat	2000	MEng	Response of Geosynthetics reinforced soil structure subject to blast	National University of Singapore
Noor Adli Sapari	2000	MEng	Uplift capacity of a short straight-shaft pile in sand subjected to monotonic loadings	Universiti Teknologi Malaysia
Syed Abdul Mofiz	2000	PhD	Behaviour of unreinforced and reinforced residual granite soil	Universiti Kebangsaan Malaysia
Tan Eng Liang	2000	MEng	Application of real time kinematic GPS in land reclamation survey	Nanyang Technological University, Singapore
Wong Joo Chai	2000	MEng	Shear strength of residual soil under infiltration conditions	Nanyang Technological University, Singapore
Chuan Chai Guan	2001	MEng	Prediction of the behaviour of braced excavation systems using bayesian neural networks	Nanyang Technological University, Singapore
Lim Liang Hong	2001	MEng	Electro-osmotic consolidation of marine clay	National University of Singapore
Low Tian Huat	2001	MSc	Water infiltration study on slopes	Universiti Malaya, Malaysia
Mohd. Sofian Azmirza	2001	PhD	Permodelan kekuatan ricesh satu tanah baki granit tepu dan tak tepu (Modeling of the shear strength of saturated and unsaturated granite residual soil)	Universiti Kebangsaan Malaysia
Norhasnida Baharuddin	2001	MEng	Tanah baki metasedimen sebagai bahan pelapik kambusan (Meta sedimentary residual soils as landfill liner material)	Universiti Kebangsaan Malaysia
Novrial	2001	MEng	Kaedah selinder tanah-kapur untuk penstabilan cerun laterit semulajadi (Soil-lime cylinder method for stabilization of natural laterite slopes)	Universiti Teknologi Malaysia
Pratikso	2001	PhD	Uplift behaviour of enlarged base pier in sand	Universiti Teknologi Malaysia
Soenita Hashim	2001	MSc	A study on shear strength characteristics of an unsaturated residual soil using a modified shear box apparatus	Universiti Malaya, Malaysia

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Name	Year	Degree	Title	University
Amir Khan Suwandi	2002	MEng	Rock-socketed bore pile, soil retaining system and management of confined site	Universiti Teknologi Malaysia
Chan Swee Huat	2002	PhD	Iterative solution for large indefinite linear systems from Biot's finite element formulation	National University of Singapore
Gan Chin Liang	2002	MEng	Instability of granular soil under general stress conditions	Nanyang Technological University, Singapore
How You Chuan	2002	PhD	Rayleigh-Ritz method for raft and piled raft foundation analysis	National University of Singapore
Husaini Omar	2002	PhD	Development of risk assessment and expert system for cut slopes	Universiti Putra Malaysia
Liew Hock Liong	2002	MEng	Non-linear conjugate gradient method for geotechnical finite element analysis	National University of Singapore
Lim Chee Seng	2002	MEng	Field performance of a geosynthetic reinforced soil structure backfilled with residual soil	National University of Singapore
Noor Azizi Yusof	2002	MEng	Development of peak ground acceleration map and response spectrum using deterministic seismic hazard analysis for Malaysia	Universiti Teknologi Malaysia
Poh Teoh Yaw	2002	PhD	Effects of construction methods and concrete cracking on the performance of propped diaphragm walls	Nanyang Technological University, Singapore
Ratnam S.	2002	PhD	Development of a novel self boring permeability measurement technique	University of Cambridge, UK
Saravanan Mariappan	2002	MSc	Field and laboratory studies on some characteristic of an unsaturated residual soil	Universiti Malaya, Malaysia
Tan Su Kwong	2002	MSc	Improvement in the reliability of low strain integrity testing interpretation	Monash University, Australia
Teo Kin Beng	2002	MEng	Pengukuran tekstur permukaan kekar batuan – Perbandingan kaedah fotogrametri jarak dekat dan kaedah konvensional (Measurement of surface texture of rock fractures – Comparison of short distance photogrametric and conventional techniques)	Universiti Teknologi Malaysia

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Name	Year	Degree	Title	University
Zulkifli Ahmad	2002	MEng	Pembaikan tanah baki metasedimen bagi kegunaan sebagian bahan pelapik kambusan (Improvement of meta-sedimentary residual soils for use as landfill liner material)	Universiti Kebangsaan Malaysia
Aug. Setyo Munthohar	2003	MSc	Engineering properties of rice husk ash enhanced lime-stabilised expansive Soil	Universiti Malaya, Malaysia
Baba Musta	2003	PhD	Effect of leaching on lime stabilised contaminated soil and mining wastes	Universiti Teknologi Malaysia
Chow Shiao Huey	2003	MEng	Reduction of downdrag on bored piles using plastic sheets	Nanyang Technological University, Singapore
Hooi Kah Yeng	2003	MEng	Ground movements associated with station excavations of the first Bangkok MRT subway	Asian Institute of Technology, Thailand
Khairul Nizar Mohd. Yusof	2003	MEng	Minerologi, mikrostruktur dan komposisi kimia tanah baki granit di Semenanjung Malaysia (Minerology, microstructure, and chemical composition of granite residual soil in the Malaysian peninsular)	Universiti Teknologi Malaysia
Lee Chuin Bing	2003	MEng	Fracturing characteristics of Bukit Timah granite	Nanyang Technological University, Singapore
Lee Seong Tat	2003	MSc	Chemical stabilization of residual soils for road construction	University of Malaya, Malaysia
Nik Norsyariati Nik Daud	2003	MEng	Pembersihan tanah baki tercemar menggunakan kaedah biologi (Residual soil remediation using biological methods)	Universiti Kebangsaan Malaysia
Ong Tiam Hwa	2003	MEng	Rainfall-induced slope failures: Controlling factors and mitigation with capillary barriers	Nanyang Technological University, Singapore
Tou Jen Hau	2003	MEng	Dynamic properties of tropical soils	Nanyang Technological University, Singapore
Mustafa Kamal Shamsudin	2004	MEng	Stabilisation of marginal soil with lime as capping layer for road construction	Universiti Teknologi Malaysia

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Name	Year	Degree	Title	University
Saiful Azhar Ahmad Tajudin	2004	MEng	Ciri-ciri kejuruteraan, mineralogi dan mikrostruktur bagi tanah liat lembut di Semenanjung Malaysia (Engineering characteristics, minerology, and microstructure of soft clay in Peninsular Malaysia)	Universiti Teknologi Malaysia