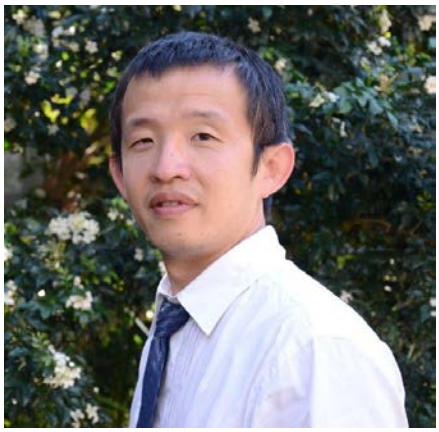
CURRICULUM VITAE

Cholachat Rujikiatkamjorn, MIEAust, MASCE



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Bibliographical sketch

Dr Cholachat is an Associate Professor at the Centre for Geomechanics and Railway engineering, School of Civil, Mining and Environmental Engineering, University of Wollongong. He received his B Eng (1st Class Honours) from the Khonkaen University, Thailand in 2000 with a Masters (M Eng) from the Asian Institute of Technology, Thailand in 2002. He obtained his PhD in Geotechnical Engineering from the University of Wollongong in 2006. He has been practiced in the area of geotechnical engineering for more than 15 years. He received the Australian Geomechanics Society Thesis Award in 2006. In 2009, he received an award twice from the International Association for Computer Methods and Advances in Geomechanics (IACMAG) for an outstanding paper by an early career researcher, and the 2006 Wollongong Trailblazer Award for innovations in soft soil stabilisation for transport infrastructure. Recently he received the 2012 DH Trollope award and the 2013 ISSMGE Young Member award for academic achievements and outstanding contributions to the field of geotechnical engineering. He recently secured an early Career Researcher Award through the ARC Centre of Excellence in Geotechnical Science and Engineering with a grant of $680k for 3 years. His key areas of expertise include ground improvement for transport infrastructure and soft soil engineering. To date, he has secured over $2 Million in research funding, mostly from external sources. He is currently a CI of two ARC-DP projects, 3 ARC-LP projects and a CRC-Rail project. He is currently the supervisor/co-supervisor of 10 HDR students and 4 Research Associates.

Cholachat Rujikiatkamjorn is a research academic who has also been a member of consulting teams working on various large-scale engineering projects, providing successful and innovative solutions to the challenging problems of soft clay engineering. His original research involves innovative computer simulations of the stabilisation of soft soil by the application of vacuum consolidation. His research has influenced national and international standards and has been adopted on various projects involving road and rail embankments and port reclamation. His research outcomes have led to the introduction

of a new Australian Standard (AS8700) on the Execution of Prefabricated Vertical Drains in Soft Soils.

To date, Cholachat has been a co-author of 4 Books, 195 papers including 78 refereed international journal papers and 117 peer-reviewed conference papers. This publication record, with an H-Index of 15, is one of the highest in Australia for a civil engineer of similar-age. He has also been a co-author of several invited Keynote papers in reputed international conferences. This is truly a magnificent publication track record for a mid-career engineer, who only finished his PhD in 2006.

Innovation

His unique background and original research are the basis of significant contributions to geotechnical research and practice. A number of key research innovations that have influenced industry practice are highlighted below:

(1) He was the first to propose a computationally advanced plane strain theory for vacuum consolidation, which is now used routinely in conjunction with numerical modelling of embankments. In particular, this technique has been adopted for several projects by various industry organisations such as Coffey Geotechnics and Douglas Partners, and incorporated into geotechnical engineering software and design practice.

(2) He was the first to analyse vacuum consolidation under three dimensional loading conditions, in order to study the effect of embankment shape, including large circular embankments used for heavy water and oil storage tanks. This has revolutionised the analysis of this particular problem and has also been adopted in geotechnical design and performance verification in practice, e.g., for the Ballina – Pacific Highway project, and in major R & D projects, e.g., an ARC-Linkage project with RTA (now RMS).

(3) His lead role in the design and construction (in-house) of large-scale soil sampler and consolidation equipment used for testing anisotropic soil properties, including those required to predict the response to vacuum preloading. This soil sampler has been extensively utilised for taking 300mm diameter samples for soil property assessment in relation to design carried out by RMS for the Pacific Highway project.

Impact

His research since 2010 has resulted in the only design charts available for engineers using prefabricated drains (PVDs) in conjunction with vacuum pressure. These charts are now part of the new Australian Standards (AS8700) on the “Execution of Vertical Drains in Soft Soils” launched in February 2012. The latest version of his design charts are currently used in several countries for preliminary design, including Australia, China, Canada, and several Southeast Asian nations.

His contributions to the field of geotechnical engineering have been recognised nationally and internationally and some of the key recognitions in the past 5 years include:

(a) 2013 International Society of Soil mechanics and Geotechnical Engineering (ISSMGE) Young Member award for outstanding contributions to geotechnical engineering through innovative solution for soft soil improvement;

(b) 2012 Hugh Trollope Medal for young professionals awarded by the Australian Geomechanics Society;

(c) 2011 University of Wollongong Vice-Chancellor Research Excellence Award commending the topmost Emerging Researchers at UOW, and

(d) 2011 Award for Outstanding Contributions through publications by a young professional, conferred by the International Association for Computer Methods and Advances in Geomechanics (IACMAG).

Advanced the standing of engineering profession

His research outcomes have produced major advancements in science, technology and industry applications. His original computational procedures for analysing vacuum acceleration of subsurface drainage have enabled the only Design Charts now available to practitioners, in addition to initiating a new Australian Standard (AS8700) for vertical drains (Rujikiatkamjorn & Indraratna 2007).

Some important applications of his design charts to transport engineering practice are listed in detail below:

(a) Rail Grade Separation Project, Sandgate: A rail track built on up to 30m of thick soft estuarine soil was stabilised with relatively short vertical drains to consolidate the soil just beneath the rail track. No additional preloading surcharge was provided, except the weight of the trains. His design charts were used to predict the performance by geotechnical consultants working with ARTC (Australian Rail Track Corporation). An a priori prediction was obtained in terms of lateral and vertical displacements.

(b) Ballina Bypass Project: The Pacific Highway is being upgraded to support the transportation demand between Sydney and Brisbane, Australia. In collaboration with the Ballina Bypass Alliance, the preliminary design of the combined vacuum and surcharge fill system and the construction of the embankment were based on his design charts. As a result, the conventional and often cumbersome trial and error methods used conventionally to estimate the appropriate parameters was avoided. It was shown that consolidation time can be significantly reduced when vacuum application was employed in this project.

RECENT CONSULTANCY INVOLVEMENTS: I have been part of the team for the following consultancy projects:

Arup Geotechnics on the design and analysis of rail tracks on soft estuarine soils in Newcastle region, NSW (2005-2006).

Coffey Geotechnics on the laboratory evaluation of soil consolidation parameters for port environments (2007-2008).

Port Kembla Port Corporation on the characterisation of coal wash as construction fill (2010-2011).

Subgrade soil testing under cyclic load for rail tracks in Victoria and NSW (2014-2015)

Education

2006	Ph.D.	Geotechnical Engineering, University of Wollongong; Thesis: “Analytical and numerical modelling of soft clay foundation improvement via prefabricated vertical drains and vacuum preloading”; Supervisor: Prof Buddhima Indraratna
2002	MEng	Geotechnical Engineering, Asian Institute of Technology, Bangkok Thailand
2000	BEng (Hons)	Civil Engineering, Khonkaen University, Khonkaen, Thailand

Academic Appointment

Jan 2013 – Present	Associate Professor, University of Wollongong
Jan 2009 – Dec 2012	Senior Lecturer, University of Wollongong
Feb 2008 – Dec 2008	Lecturer in Geotechnical Engineering, University of Wollongong
Jan 2006 – Jan 2008	Research Associate, School of Civil, Mining and Environmental Engineering, Faculty of Engineering University of Wollongong

Awards

2013	ISSMGE Young Member Award for academic achievements and outstanding contributions to the field of geotechnical engineering by a young member less than 36 years of age
2013	Vice-Chancellor's Award for Excellence in Research Partnership, University of Wollongong
2012	D H Trollope Medal by the Australian Geomechanics Society for contributions to geotechnical research
2012	Robert M. Quigley Honourable Mention award from the Canadian Geotechnical Society
2011	Vice-Chancellor Research Excellent Award for Emerging Researchers: Highly Commended
2010	International Association for Computer Methods and Advances in Geomechanics (IACMAG) for an outstanding paper by an early career researcher
2008	International Association for Computer Methods and Advances in Geomechanics (IACMAG) for an outstanding paper by an early career researcher
2006	Australian Geomechanics Society Thesis Award
2006	Wollongong Trailblazer Award for innovations in soft soil stabilisation for transport infrastructure
2005	Australian Geomechanics Society Young Geotechnical Engineer Award

Industrial/Commercial/Professional Activities

Committee member, Australian Geomechanics Society, Sydney Chapter

Editorial Board Member, International Society of Soil Mechanics and Geotechnical Engineering Bulletin

Reviewer, Canadian Geotechnical Journal, International Journal of Geotechnical and Geoenvironmental Engineering, ASCE, Computers and Geotechnics.

INVOLVEMENT IN RESEARCH

Over $7M in ARC, over $1.4M in CRC-Rail, and over $120 K in URC funding.

ARC Discovery DP130102217 (13-15)	$352 K	Indraratna, Rujikiatkamjorn, Coop Densification and Degradation of Rail Ballast under Cyclic Wheel Loading.
ARC LIEF LE130100028	$300 K	SLOAN et al., A national facility for in situ testing of soft soils
ARC LIEF LE130100006	$500 K	GATES et al. X-ray Microscopy Facility for Imaging Geo-materials (XMFIG)
ARC Linkage	$ 355 K	Indraratna, Cameron, Rujikiatkamjorn, Vinod, Chan, Pitman,

LP120200531 (12-14)		Cooper, Burke. The role of vegetation and associated root suction and reinforcement on the stabilisation of transport corridors and sloping ground
ARC LIEF LE120100011	$700 K	GAUDIN et.al. The National Geotechnical Centrifuge Facility
ARC DECRA	$ 680 K	**Rujikiatkamjorn,** Effectiveness of Prefabricated Vertical Drains (PVDs) and Vacuum Application in the Stabilization of Soft In-Situ Clays
ARC Linkage LP110200447 (11-14)	$ 455 K	Indraratna, **Rujikiatkamjorn,** Vinod, Sivakumar, Armstrong, Mcintosh. Cyclic Behaviour of Unstable Soils Stabilised by Lignosulfonate with Special Reference to Rapid Transport Infrastructure
ARC Discovery DP1092483 (10-12)	$ 366 K	**Rujikiatkamjorn,** Liu, Chu. Laboratory and Theoretical Investigation of Soft Clay Behaviour under Cyclic Loading Stabilised by Prefabricated Vertical Drains
ARC Linkage LP100200265 (10-12)	$ 431 K	Indraratna, **Rujikiatkamjorn,** Vinod, Dunne, Ameratunga, Berthier, McIntosh, Blunden, Chu. Geotechnical Properties and Compaction Characteristics of Granular Wastes as Potential Port Reclamation Fill.
ARC Linkage LP0989534 (09-11)	$ 210 K	Leo, Indraratna, Zou, **Rujikiatkamjorn,** Golaszewski, Mcwilliam, Wong, Bergado. Geotechnical characterisation of compacted ground based on passive ambient noise techniques
ARC Linkage LP0883244 (08-10)	$ 355 K	Indraratna, **Rujikiatkamjorn,** Buys, Wijeyakulasuriya, Kelly, McIntosh, Leroueil, Chu. Advancement of Vacuum Pressure Application via Prefabricated Vertical Drains for Stabilising Soft Ground.
CRC Rail Innovation (11-14)	$ 350 K	Indraratna, **Rujikiatkamjorn,** Neville, Remennikov, Murray, Pfeiffer, Martin, Foun. Field monitoring of track behaviour and the study of synthetic inclusions in an experimental track section to minimise the adverse effects of high cyclic and impact loads
CRC Rail Innovation (09-11)	$ 750 K	Indraratna, **Rujikiatkamjorn**, Khabbaz, Christie. Integrated Ballast-Formation-Track Design and Analysis including the Implications of Ballast Fouling and High Impact Loads.
CRC Rail Innovation (09-11)	$ 300 K	**Rujikiatkamjorn,** Indraratna, Khabbaz. Development and validation of non-destructive ballast and formation condition assessment.
VC Teaching Relief fund. (2011)	$ 20 K	**Rujikiatkamjorn**. VC Teaching Relief fund.
URC RIBG (2008)	$ 69 K	Indraratna, Rozenfeld, Zhang, **Rujikiatkamjorn** et al. Computed tomography for examining the structural alteration of geological media and construction materials, and for radiation physics studies in medical imaging.

URC Small (2010)	$ 8 K	Vinod and **Rujikiatkamjorn.** An investigation on the mechanical behaviour of methane hydrate sediment mixtures.
URC Small (2007)	$ 15 K	Indraratna and **Rujikiatkamjorn.** Stabilisation of soft soil formations using prefabricated vertical cross drains (PVCDs) beneath heavy haul railways. UOW URC small grant

ENGINEERING RESEARCH FIELD

Key research areas

- Soft Soil Engineering
- Railway Engineering
- Non-destructive Testing

Supervision of research students: current HDR students at UOW

Currently principle supervisor of 4 PhD, and co-supervisor of 5 PhD students.

Complete PhD thesis

- Ali Ghandeharioon: *Analytical and Numerical Study of Soil Disturbance Associated with the Installation of Mandrel-driven Prefabricated Vertical Drains*
- Vo Trong Nguyen: *Flow Through Filters and Drains in Hydropower Dams*
- Jing Ni: *Application of Geosynthetic Vertical Drains Under Cyclic Loads In Stabilising Rail Tracks*
- Ana Ribeiro Heitor: *Geotechnical Characterization of Compacted Ground Considering Sheer Wave Velocity Measurements*
- Kourosh Kianfar: *Implication of PVD and Vacuum Preloading on Viscoplastic Behaviour of Soft Soils*
- Nayoma Tennakoon: *Prediction of Railway Track Behaviour Under Fouled Condition*
- Ngoc Ngo: *Performance of Geotextile Stabilised Fouled Ballast in Rail Tracks*

Involvement in supervision of postdoc fellows

- Dr. Ala Aljorany (Endeavour Fellow; Co-supervised with Prof Buddhima Indraratna): Soft Ground Improvement Using Vertical Drain
- Dr. Sudip Basack (Endeavour Fellow; Co-supervised with Prof Buddhima Indraratna): Soft Ground Improvement Using Stone Column
- Dr. Geng Xueyu (ARC LP; Co-supervised with Prof Buddhima Indraratna): Soft Ground Improvement Using Vertical Drain and vacuum pressure
- Dr. Sanjay Nimbalkar (CRC-Rail; Co-supervised with Prof Buddhima Indraratna): Field monitoring of track behaviour and the study of synthetic inclusions in an experimental track section to minimise the adverse effects of high cyclic and impact loads

- Dr. Lijun Su (CRC-Rail; Co-supervised with Prof Buddhima Indraratna): Development and validation of non-destructive ballast and formation condition assessment.
- Dr. Gabriel Chiaro (ARC LP; Co-supervised with Prof Buddhima Indraratna): Geotechnical Properties and Compaction Characteristics of Granular Wastes as Potential Port Reclamation Fill.
- Dr. Meng Guanghui (ARC DP; Co-supervised with Prof Buddhima Indraratna): Laboratory and Theoretical Investigation of Soft Clay Behaviour under Cyclic Loading Stabilised by Prefabricated Vertical Drains

PUBLICATIONS (2004-present)

Books: 4; Book Chapter: 1; Refereed Journals: 73; Conference Papers: 115; H-index = 15 and 430 citations as recorded in Scopus on 14/02/2015.

Scholarly books (research based):

Indraratna, B. Chu, J. and Rujikiatkamjorn, C. (2015). Embankments with Special Reference to Consolidation and Other Physical Methods. Elsevier Scientific (UK). 26 Edited Chapters.
Indraratna, B. Chu, J. and Rujikiatkamjorn, C. (2015). Compaction, Grouting and Geosynthetics. Elsevier Scientific (UK). 26 Edited Chapters.
Indraratna, B. Chu, J. and Rujikiatkamjorn, C. (2015). Chemical, Electrokinetic, Thermal and Bioengineering. Elsevier Scientific (UK). 22 Edited Chapters.
Indraratna, B., Salim, W. and Rujikiatkamjorn, C. (2011). Advanced Rail Geotechnology - Ballasted Track, CRC Press (UK), 432p. Hard Cover.

Scholarly book chapters:

BC5 Indraratna, B., Sathananthan, I., Bamunawita, C., and Balasubramaniam, A. S. (2015). Theoretical and numerical perspectives and field observations for the design and performance evaluation of embankments constructed on soft marine clay, in Embankments with Special Reference to Consolidation and Other Physical Methods. Elsevier Scientific (UK). Edited by Indraratna, B. Chu, J. and Rujikiatkamjorn, C., 83-122.

BC4 Indraratna, B., Rujikiatkamjorn C., Balasubramaniam, A. S. and Wijeyakulasuriya, V. (2015). Predictions and observations of soft clay foundations stabilized with geosynthetic drains and vacuum surcharge. in Embankments with Special Reference to Consolidation and Other Physical Methods. Elsevier Scientific (UK). Edited by Indraratna, B. Chu, J. and Rujikiatkamjorn, C., 209-240

BC3 Basack, S., Indraratna, B. Rujikiatkamjorn C., and Siahaan, F. (2015). Theoretical and Numerical Perspectives on Performance of Stone-Column-Improved Soft Ground with Reference to Transport Infrastructure. in Embankments with Special Reference to Consolidation and Other Physical Methods. Elsevier Scientific (UK). Edited by Indraratna, B. Chu, J. and Rujikiatkamjorn, C., 751-796.

BC2 Heitor, A., Indraratna, B., Rujikiatkamjorn, C., Golaszewski, R. (2015). Assessment of the Postcompaction Fill Characteristics at the Penrith Lakes Development Site. in Compaction, Grouting and Geosynthetics. Elsevier Scientific (UK). Edited by Indraratna, B. Chu, J. and Rujikiatkamjorn, C., 397-426.

BC1 Indraratna, B., Rujikiatkamjorn C., Balasubramaniam, A.S. and Wijeyakulasuriya, V. (2005). Predictions and observations of soft clay foundations stabilized with geosynthetic drains and vacuum surcharge. *Ground Improvement-Case Histories*, edited by Indraratna and Chu, Elsevier Scientific, 199-230.

Edited Journal Special Issues

SI2 Indraratna B. Nimbalkar, S., and Rujikiatkamjorn, C., (2014). Transportation Geotechnics, Vol 1, Issue 4, Special Issue on Rail Geomechanics – From Theory to Practice.

SI1 Indraratna B. and Rujikiatkamjorn, C., (2014). Geotechnical Engineering Journal of the SEAGS & AGSSEA, March Issue, Special Issue on Geotechnics for Advancing Transport Infrastructures.

Edited Conference Proceedings:

CP1 Indraratna B. Rujikiatkamjorn, C., Vinod, J. S. (2012). Proceedings of Ground Improvement and Ground Control, Wollongong, 2 Volumes, 296 papers, 1745 p. Scientific Publisher.

Refereed journal articles:

78 Refereed Journals

J78	Ngo, N.T., Indraratna, B., Rujikiatkamjorn, C., and Biabani, M.M. (2015). Experimental and discrete element modelling of geocell-stabilised sub-ballast under cyclic loading. Journal of Geotechnical and Geoenvironmental Engineering, ASCE. (accepted June 2015).
J77	Heitor, A., Indraratna, B., Kaliboullah, C. I., Rujikiatkamjorn, C., McIntosh, G. W. (2015) Drained and undrained shear behaviour of compacted coalwash. Journal of Geotechnical and Geoenvironmental Engineering (Accepted)
J76	Cheng, C., Indraratna, B., McDowell, G. and Rujikitkamjorn, C. (2015). Discrete element modelling of lateral displacement of a granular assembly under cyclic loading. Computers and Geotechnics, (accepted June 2015).
J75	Basack, S., Indraratna, B., and Rujikiatkamjorn, C. (2015). Modelling the Performance of Stone Column Reinforced Soft Ground under Static and Cyclic Loads. J. of Geotechnical & Geoenvironmental Engineering, ASCE. (Accepted June 2015).
J74	Kianfar. K., Indraratna, B., Rujikiatkamjorn, C. and Leroueil, S. (2015). Radial consolidation response upon the application and removal of vacuum and fill loading. Canadian Geotechnical Journal (Accepted May 2015).
J73	Chen Q.S., Indraratna B. and Rujikiatkamjorn (2015). Behaviour of LS-treated Soil under Cyclic Loading. Ground Improvement, ICE (Accepted, May 2015).
J72	Indraratna, B., Israr, J., and Rujikiatkamjorn, C. (2015). Geometrical method for evaluating the internal instability of granular filters based on constriction size distribution. J. Geotech. Geoenviron. Eng. ASCE, (Accepted, March 2015).
J71	Rujikiatkamjorn, C. and Indraratna, B. (2015). Effect of Drain Installation Patterns on Rate of Consolidation, Ground Improvement. (Accepted November 2014).
J70	Heitor, A., Indraratna, B. and Rujikiatkamjorn, C. (2015). The Role of compaction energy on the small strain properties of a compacted silty sand subjected to drying-wetting cycles. Géotechnique, (Accepted December 2014).

J69	Tasalloti S.M, Indraratna B, Rujikiatkamjorn C., Heitor A & Chiaro G. (2015). Laboratory study on the shear behavior of mixtures of coalwash and steel furnace slag as potential structural fill, ASTM Testing Journal Vol 35(4) 361-372.
J68	Rujikiatkamjorn, C. and Indraratna, B. (2014). Analytical Solution for Radial Consolidation Considering Soil Structure Characteristics, Canadian Geotechnical Journal. 10.1139/cgj-2014-0277.
J67	Indraratna, B., Ngo, N. T., Rujikiatkamjorn, C., and Sloan, S. W. (2015). Coupled discrete element-finite difference method for analysing the load-deformation behaviour of a single stone column in soft soil. Computers and Geotechnics. 63: 267-278.
J66	Indraratna, B., Perera, D., Rujikiatkamjorn, C. and Kelly, R. (2014). Soil Disturbance Analysis due to Vertical Drain Installation. Geotechnical Engineering, ICE, DOI: 10.1680/geng.14.00052.
J65	Indraratna, B., Navaratnarajah, S. K., Nimbalkar, S. and Rujikiatkamjorn, C. (2014). Use of shock mats for enhanced stability of railroad track foundation, Australian Geomechanics Journal, Special Edition: ARC Centre of Excellence for Geotechnical Science and Engineering, 49(4): 101-111.
J64	Tennakoon, N., Indraratna, B. and Rujikiatkamjorn, C. (2014). Effect of ballast contamination on the behaviour of track substructure, Australian Geomechanics Journal, Special Edition: ARC Centre of Excellence for Geotechnical Science and Engineering, 49(4): 113-123.
J63	Heitor, A., Indraratna, B. and Rujikiatkamjorn, C. (2014). Assessment of the post-compaction Characteristics of a silty sand, Australian Geomechanics Journal, Special Edition: ARC Centre of Excellence for Geotechnical Science and Engineering, 49(4): 125-131.
J62	Indraratna, B., Kinafar, K., Rujikiatkamjorn, C. and Perera, D. (2014). Soft clay properties for non-Darcian radial drainage with vacuum preloading, based on Rowe cell testing, Australian Geomechanics Journal, Special Edition: ARC Centre of Excellence for Geotechnical Science and Engineering, 49(4): 183-190.
J61	Indraratna, B., Nimbalkar, S. and Rujikiatkamjorn, C. (2014). “From theory to practice in track geomechanics - Australian perspective for synthetic inclusions”, Transportation Geotechnics Journal - Special issue on ‘Rail Geomechanics - From Theory to Practice’, Vol. 1(4): 171-187.
J60	Chen, Q. S., Indraratna, B., Carter, J., and Rujikiatkamjorn C. (2014). A Theoretical and Experimental Study on the Behaviour of Lignosulfonate-Treated Sandy Silt. Computers and Geotechnics, 61, 316-327.
J59	Chu, J., Indraratna, B., Yan, S. W., and Rujikiatkamjorn, C. (2014). Overview of preloading methods for soil improvement, Ground Improvement, ICE, 167 (3) 173-185.
J58	Indraratna, B., Nimbalkar, S. and Rujikiatkamjorn, C. (2014). Enhancement of Rail Track Performance through Utilisation of Geosynthetic Inclusions. Geotechnical Engineering Journal. 45(1), 17-27.
J57	Chiaro, G., Indraratna, B., Tasalloti, S.M.A. and Rujikiatkamjorn, C. (2015) Optimisation of coal wash – slag blend as structural fill, Ground Improvement Journal, ICE, 168(1), 33-44.
J56	Indraratna, B., Ngo, N. T., and Rujikiatkamjorn, C., (2014). DEM simulation of the behaviour of geogrid stabilised ballast fouled with coal. Computers and Geotechnics, 55, 224–231.

J55	Indraratna, B., Nimbalkar, S. and Rujikiatkamjorn, C. (2014). Enhancement of Rail Track Performance through Utilisation of Geosynthetic Inclusions. Geotechnical Engineering Journal. 45(1), 17-27.
J54	Indraratna, B., Ngo, N. T., Rujikiatkamjorn, C., and Vinod. J. S. (2014). Behaviour of fresh and fouled railway ballast subjected to direct shear testing - A discrete element simulation. International Journal of Geomechanics, ASCE, 14(1) 34-44.
J53	Indraratna, B., Balasubramaniam, A. S., Poulos, H. G., Rujikiatkamjorn, C. and Ameratunga, J. (2013). Performance and prediction of marine clay treated with vacuum and surcharge consolidation at Port of Brisbane, Australian Geomechanics, 48(4), 161-180.
J52	Rujikiatkamjorn, C. Ardana, M., Indraratna, B., and Leroueil, S. (2013). Conceptual Model Describing Smear Zone Caused by Mandrel Action. Géotechnique. 63(16), 1377-1388.
J51	Kianfar, K., Indraratna, B., and Rujikiatkamjorn, C. (2013). Radial Consolidation Model Incorporating the Effects of Vacuum Preloading and Non-Darcian Flow. Géotechnique. 63(12), 1060-1073.
J50	Indraratna, B., Ngo, N. T. and Rujikiatkamjorn, C. (2013). Studying the deformation of coal fouled ballast stabilised with geogrid under cyclic load. J. of Geotechnical & Geoenvironmental Engineering, ASCE. 139(8), 1275-1289.
J49	Nguyen, V. T. Rujikiatkamjorn, C. and Indraratna, B., (2013). Analytical solutions for filtration process based on the constriction size concept. J. of Geotechnical & Geoenvironmental Engineering, ASCE. 139(7), 1049–1061.
J48	Ni, J., Indraratna, B., Geng, X. Y. Carter, J. P. and Rujikiatkamjorn C. (2013). Radial consolidation of soft soil under cyclic loads, Computers and Geotechnics, 50 (1), 1–5.
J47	Rujikiatkamjorn, C. and Indraratna, B., (2013). Current State of the Art in Vacuum Preloading for Stabilising Soft Soil. Geotechnical Engineering Journal. 44(4), 77-87.
J46	Heitor, A., Indraratna, B. and Rujikiatkamjorn, C. (2013). Laboratory study of small strain behavior of a compacted silty sand. Canadian Geotechnical journal, 50(2); 179-188.
J45	Indraratna, B., Kianfar, K., and Rujikiatkamjorn, C. (2013). Laboratory Evaluation of Coefficient of Radial Consolidation Based on Pore-Water Pressure Dissipation and Settlement. ASTM Geotechnical Testing Journal. 36(1); 1-12.
J44	Rujikiatkamjorn, C., Indraratna, B., and Chiaro, G. (2013). Compaction of coal wash to optimize its utilization as water-front reclamation fill. Geomechanics and Geoengineering: An International Journal, 8(1); 36-45.
J43	Indraratna, B., Basack, S. and Rujikiatkamjorn, C. (2013). A Numerical Solution of Stone Column Improved Soft Soil considering Arching, Clogging and Smear Effects. J. of Geotechnical & Geoenvironmental Engineering, ASCE. 139(3); 377- 394.
J42	Indraratna, B., Tennakoon, N., Nimbalkar, S. and Rujikiatkamjorn, C. (2012). Behaviour of Clay Fouled Ballast under Drained Triaxial Testing. Géotechnique, 63(5); 410-419.
J41	Rujikiatkamjorn, C. (2012). Physical modelling of soft consolidation using vacuum-surcharge method. Journal of Australian Geomechanics, 47(3), 27-33.

J40	Indraratna, B., Nguyen, V. & Rujikiatkamjorn, C. (2012). Closure to: Assessing the Potential of Internal Erosion and Suffusion of Granular Soils. J. of Geotechnical & Geoenvironmental Engineering, ASCE, 138(6), 775-775.
J39	Robinson, R. G., Indraratna, B. and Rujikiatkamjorn, C. (2012). Final state of soils under vacuum preloading, Canadian Geotechnical Journal, 49(6): 729-739.
J38	Walker, R., Indraratna, B. and Rujikiatkamjorn, C. (2012). Vertical drain consolidation with non-darcian flow and void ratio dependent compressibility and permeability, Géotechnique, 62(11), 985-997.
J37	Tennakoon, N, Indraratna, B., Rujikiatkamjorn, C., Nimbalkar, S. and Neville, T. (2012). The role of ballast fouling characteristics on the drainage capacity of rail substructure. ASTM Geotechnical Testing Journal. (35(4): DOI: 10.1520/GTJ104107.
J36	Indraratna, B., Rujikiatkamjorn, C., Kelly, R. and Buys, H. (2012). Soft soil foundation improved by vacuum and surcharge loading. Ground Improvement, 165 (2): 87-96.
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C117	**Keynote Lecture**: Indraratna, B., Rujikiatkamjorn, C., Nimbalkar, S., Zhong, R., And McIntosh, G. (2015). Ground Improvement for enhancing the Performance of Road, Rail, and Port Infrastructure, International Conference on Geotechnical Engineering (Accepted December 2014).
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C115	Tasalloti, S. M. A., Indraratna, B. Chiaro, G. and Heitor, A. (2015). Field Investigation on Compaction and Strength Performance of Two Coal Wash-BOS Slag Mixtures. Proceedings of IFCEE 2015, ASCE, 2359-2368.
C114	Ngo, N. T., Rujikiatkamjorn C., Indraratna B. (2015). Deformation behaviour of coal-fouled ballast reinforced with geogrid, Proceedings of the 12th Australia - New Zealand Conference on Geomechanics: Changing the Face of the Earth (ANZ 2015) Paper No.36, In CD.
C114	Kaliboullah, C. I., Indraratna, B., Rujikiatkamjorn, C., and Heitor, A. (2015). Evaluation of coalwash as a potential structural fill material for port reclamation. Proceedings of the 12th Australia - New Zealand Conference on Geomechanics: Changing the Face of the Earth (ANZ 2015) Paper No.29, In CD.

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