PERSONAL INFORMATION

Name	Dr. Md. Mizanur Rahman
Current position	Associate Professor in Geotechnical Engineering School of Natural and Built Environments University of South Australia Australia
Office Address	Room P2-42A School of Natural and Built Environments University of South Australia Mawson Lakes, SA 5059 Australia
Telephone	+61 (0)8 8302 5899 (office)
Email	Mizanur.Rahman@unisa.edu.au

EDUCATION

Graduate Certificate in Education: Academic practice (2011-2012)	Completed the following courses ○ EDUC 5120: Introduction to University Teaching (SP2/2011) ○ EDUC 5122: Supervising Research Students (SP2/2012)
PhD in Civil Engineering (2009)	University of New South Wales(UNSW), Canberra Thesis title: "*Modelling the effect of fines on liquefaction behaviour of sandy soil*"
BSc in Civil Engineering (2002)	Rajshahi Uni. of Engg. & Technology, Bangladesh 1st class 1st (honors), 3.88 out of 4.00 (University Gold Medal) Thesis title: "*Lateral load resistance of laterally loaded pile on sandy soil*"

EMPLOYMENT HISTORY

Date	**Position**	**Institution**
Jan, 2018-to date	Associate Professor in Geotch. Engg.	University of South Australia Adelaide, Australia
Jan, 2014-to date	Senior Lecturer	University of South Australia Adelaide, Australia
Dec, 2010-Dec, 2013	Lecturer	University of South Australia Adelaide, Australia
April, 2009-Nov, 2010	Post-Doctoral Fellow	University of Canterbury Christchurch, New Zealand
Feb, 2009-April, 2009	Visiting Research Associate	University of New South Wales at ADFA Canberra, Australia
Feb, 2005- Feb, 2009	PhD candidate	University of New South Wales at ADFA Canberra, Australia

Feb, 2003-Feb, 2005	Lecturer	Rajshahi University of Engg. & Tech. (RUET) Rajshahi, Bangladesh
Jan, 2003-Feb, 2003	Part Time Teacher	Rajshahi University of Engg. & Tech. (RUET) Rajshahi, Bangladesh

HONORS, SCHOLARSHIPS AND AWARDS

2014-15	Professional Experience Program award to University of California (UC), Davis
	Early Career Researcher International Travel Award (ECRITA) to support research in UC, Davis
2012-13	Australian Academy of Science Early Career Fellowship (Category-1 funding)
2012	Early Career Researcher Development Program
2007 & 2008	Postgraduate Research Student Travel Grant from University of New South Wales, Australia
2005-2009	Endeavour Postgraduate Research Scholarship from Australian Government for PhD research at University of New South Wales
	NSW Global Award (for very highly ranked student at UNSW in 2005)
2003	Institution Gold Medal (for outstanding academic achievement) from Rajshahi University of Engineering & Technology, Bangladesh
1999	Joynal Memorial Award (for outstanding academic result in 2nd year) from Rajshahi University of Engineering & Technology, Bangladesh
1997	Government Scholarship for BSc. in Engineering Study from Bangladesh Government

RESEARCH

RESEARCH INTERESTS

Development of rigorous laboratory based research facilities to develop and validate constitutive model for soil and to implement them in Finite Element Method, FEM to facilitate global analysis of soil structure. My other particular areas of interest include the link between field and laboratory testing, pavement engineering, matric suction, foundation engineering, soil-structure interaction, ground improvement, instability and geo-environmental engineering.

Total successful research grant is $2,074,756 (cash).

SUCCESSFUL RESEARCH GRANTS

Table 1: Summary of successful grants

Year	Grant Name	Project Title	Amount	Type	Category
2018	Concrete Masonry Association of Australia Limited	Development and integration of DesignPave v1.0 and PermPave v2.0	$85,000	External	Category-3

	CI: **M. M. Rahman**				
2017	ARC Linkage-LP 16 ID: LP160101561 CIs: 1st: Prof. A. Fourie, 2nd: J. Vinod 3rd: **M. M. Rahman** and other 9 CIs	Evaluating potential static liquefaction of tailings to prevent failures	$630,000 (ARC) $720, 000 (Industry)	External	Category-1
	Future Industries Accelerator CIs: 1st: Prof. Y. Zhuge, 2nd: Xing Ma 3rd: **M. M. Rahman** 4th: R. Hassanli	Performance evaluation of crumbed rubber reinforced pavers/bricks in commercial applications	$90,000	External	Category-2
	RTIS Development Funding Tyre Stewardship Australia, MLEI Consulting Engineers and Tyrecycle Ltd CIs: 1st: Prof. Yan Zhuge 2nd: Dr Martin Freney 3rd: Dr Xing Ma 4th: Dr Mizanur Rahman	Physical properties of tyre walls in residential housing construction	$90,000 (Approx.)	Internal	---
2016	Concrete Masonry Association of Australia Limited CI: **M. M. Rahman**	Development of Computer Software for Design and Analysis of Concrete Segmental Pavements, DesignPave v1.0	$130,000	External	Category-3
	Partnership Enabling grant scheme (PEGS 15-16) CIs: 1st: **M. M. Rahman** 2nd: W. Skinner 3rd: M. Short 4th: R. Karim	Soil bio-cementation for sustainable mining operations and mine waste remediation	$39,593	Internal	
	Research Themes Investment Scheme - Seed Funding CIs: 1st: T. Raimondo 2nd: J. Payne	Melting the ice: the impact of sub-glacial heat flow on the stability of the Antarctic ice sheet	$ 29,060	Internal	

	3rd: Prof. P. Howlett 4th: A/Prof P. Pudney 5th: **M. M. Rahman**				
	NBERC Seed funding CIs: 1st: R. Karim 2nd: **M. M. Rahman**	Recycling of waste tyres as alternative aggregates in pavement construction and geo-reinforcement for economic and environmental benefit.	$5,000	Internal	
2015	City of Playford grant CIs: 1st: D. Cameron 2nd: **M. M. Rahman**	Recycling in-situ of Local Government Roads (Playford)	$15,000	External	Category-2
2014	Professional Experience Program, ITEE CI: **M. M. Rahman**	5 months PEP to visit University of California, Davis	$3,150 + leave	Internal	---
	UniSA Early Career Researcher International Travel Award (ECRITA) CI: **M. M. Rahman**	Travel support for research collaboration with Prof. Yannis Dafalias at University of California, Davis	$6,000	Internal	---
2013	Early Career and New Appointee Researcher Development Award, ITEE CI: **M. M. Rahman**	Discrete Element Modeling (DEM) to help understand bio-cementation process by pathogenic bacteria around particles	$4,000	Internal	---
	Zero Waste SA sd+b Centre Research Funding Scheme CIs: 1st: D. Cameron 2nd: **M. M. Rahman**	Development of a rolling /rocking wheel loading device to reliably evaluate the performance of sustainable recycled aggregates for pavements under heavy traffic loading.	$7,800	External	Category-2
2012	Australian Academy of Science Early Career Fellowship which was supported by the Australia-India Strategic Research Fund (AISRF) CI: **M. M. Rahman**	Instability behavior of sandy soils and modelling	$16,500	External	Category-1
	Early Career Research development program, UniSA CI: **M. M. Rahman**	A series of day long workshops to develop ECR career	In kind	Internal	---

2011	Early Career and New Appointee Researcher Development Award, ITEE CI: **M. M. Rahman**	Evaluate liquefaction potential for Port Adelaide area	$4,000	Internal	---
2008	Post graduate travel fund (during PhD) CI: **M. M. Rahman**	To present a paper in USA	$828	UNSW	---

APPLIED RESEARCH GRANTS

Year	Grant Name	Project Title	Amount	Type	Category
2017	EoI: Australia China Science Research Fund (ACSRF) - Australia- China Joint Research Centres (JRCs) CIs: Prof. Mills, Prof. Zhuge, Prof. Skinner, Prof. Beecham, A/Prof. Ma, Dr. Ma and Dr. **M. M. Rahman**	Australia-China Joint Research Centre for Sustainable Construction Material Manufacturing	TBA	External	Category-1

INVITED KEYNOTES/LECTURES

2013 1. Invited by Prof. Tom Schanz to give a keynote lectures on "Concept of equivalent granular void ratio and its application in modelling sand with fines behaviour" at Ruhr-Universität Bochum, Germany in September, 2013 (funded by them)

2012 2. Invited by Indian Geotechnical Society, Karnataka Chapter to give lecture on "Liquefaction: my research and experience during Christchurch (Darfield), New Zealand earthquake" in the Golden Jubilee Seminar Hall of the Department of Civil Engineering, Indian Institute of Science, India, 7 December, 2012

2011 3. Invited by Australian Geomechanics Society, SA Chapter to give lecture on "Liquefaction: Christchurch earthquake, my experience and some issues", during the Annual meeting, Australian Geomechanics Society, SA Chapter, 108 King William street, Adelaide, Australia, 11th of July, 2011

4. Invited Keynote lecture on "Static and cyclic liquefaction of sand with fines" in 3rd International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation (GEDMAR2011), 17-20 May, Semarang, Central Java, Indonesia, World Scientific, pp.109-125. doi:10.1142/9789814365161_0011

ENGAGEMENT

PROFESSIONAL AFFILIATIONS

Member of International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)
Member of International Association of Engineering Geology and environment, (IAEG)
Member of Australian Geomechanics Society (AGS)
Member of Engineers Australia (MIEAust)
Member of ASCE, USA
Member Geo-institute, ASCE, USA
Life member of IEB, Bangladesh
Executive member of Teacher Association, 2003-2004, RUET, Bangladesh

INTERNATIONAL RECOGNITION AND ENGAGEMENT

- Invited guest editor for the prestigious South East Asian Geotechnical Journal (a joint publication of 8 South East Asian countries) of an especial issue on "Laboratory and field testing of geomaterials for engineering application" which due to publish in 2018
- Honorary editorial for Geotechnical research, ICE in 2014 and for a themed issue on earthquake geotechnical engineering and liquefaction in 2016
- Member, International Technical Committee TC 307: Sustainable Geotechnical Engineering (http://www.issmge.org/committees/technical-committees/impact-on-society/sustainability-) for International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE), 2013-
- Executive committee member of Australian Geomechnics Society (SA-NT), 2014-
- Editorial board member Geotechnical research, ICE, UK, 2014-
- Editorial board member, Journal of Civil Engineering Research, Scientific & Academic Publishing (http://www.sapub.org/journal/editorialboard.aspx?journalid=1038), 2011-
- Chair and organizer of a symposium on "Effect of fine particles on the behaviour of sands and tailings" during 6th international conference on earthquake and geotechnical engineering, Christchurch, New Zealand, 1-5th of November, 2015
- Funded and invited visit to Ruhr-Universität Bochum, Germany for a week in September, 2013 by Prof. Tom Schanz and also to give a keynote lectures on equivalent granular void framework.
- Reviewer of ARC grants
- Reviewer for 24+ international journals (including most of the A* journal in geotechnical and geological engineering) in last 5 years.
- Research review database, Deanship of Scientific Research, King Fahd University of Petroleum and Minerals Dhahran, Saudi Arabia.
- Chair a session on "Sustainable Geotechnics & Geo-Environmental Engineering" in ANZ2012, 15-18th July, 2012, Melbourne Australia.
- Invited and agreed to Book Review-"The Resettlement of the Egyptian Nubians" for Scientific & Academic Publishing, USA. Accepted date: 4th June, 2012
- Reviewer in numerous international conferences: e.g. ANZ2012 (Australia), Geo-Fronties 2011 (USA), IACMAG 2011 (Australia), GEDMAR 2011 (Indonesia) in 2011, ICWES15 (Melbourne, Australia) in 2011.

PhD SUPERVISION

Table 2: Summary of PhD students

S/N	Role	Students	Project titles	Status
17	Principal Supervisor	Mohammad Emdad	Liquefaction behaviour of tailing	Starting from February 2018
16	Principal Supervisor	Isaac, Ahenkorah	Instability behaviour of silty sand	Starting from February 2018
15	Principal Supervisor	Hussaini, Ghulam UniSA	Numerical simulation for soil-superstructure interactive system subjected to earthquake excitations	Starting from 17 July 2017 with APA scholarship
14	Principal Supervisor	Kolapalli, Rohini UniSA	The effect of static loading cyclic liquefaction behaviour of sandy soil.	Ongoing, started in Feb., 2017-
13	Principal Supervisor	Tolentino, Ricky UniSA	Prediction of Permanent Deformation in Aircraft Flexible Pavement Structural Design under the Framework of Critical State Soil Mechanics	Ongoing, started in Feb., 2017-
12	Principal Supervisor	Barnett, Nick UniSA	A Study of the Static Liquefaction Behaviour of Sand-fines Mixtures Using Discrete Element Method (DEM)	Ongoing, started in Feb., 2017-
11	Principal Supervisor	Khayyer, Farid UniSA	Modelling the liquefaction behaviour of sand with fines and the effect of bio-cementation	Ongoing, started in Feb., 2016-
10	Principal Supervisor	Hora, Reena UniSA	Development of microbial induced calcite precipitation, MICP technique to bio-cement of sandy soil for sustainable geotechnical practice	Ongoing, started in Aug., 2015-
9	Co-supervisor	Cameron Hopkins UniSA	Evaluation of the efficiency of laboratory testing in predicting the performance of unbound granular pavements	Ongoing, started in June, 2014 and will be submitting in Nov. 2017
8	Principal Supervisor	Khoi, Nguyen UniSA	Discrete element applications in instability behaviour of granular materials	Graduated in June, 2017
7	Principal Supervisor	Javed Yazdi UniSA	Optimization in geotechnical engineering design: Soil nailed walls	Started in Sep., 2012-Dropped due personal issue in Iran
6	Co-supervisor	Jiajun ZHANG UNSW, Canberra	Static liquefaction behaviour of coal tailings	Graduated in Feb., 2016
5	Principal Supervisor	Md. Zillur Rabbi UniSA	Instability behaviour of lightly cemented Glacial sand	Graduated in Dec., 2015

4	Co-supervisor	Jun YANG UNSW, Canberra	Cyclic loading behaviour of coal tailings	Graduated in Dec., 2015
3	Co-supervisor	M. Jawad Arefi Uni Canterbury, New Zealand	Dynamic Characteristics and Evaluation of Ground Response for Sands with Non-Plastic Fines	Graduated in Feb. 2014
2	Co-supervisor	Azam, Halim UniSA	Recycled clay masonry as a pavement construction material	Graduated in March, 2014
1	Co-supervisor	Md. A. L. Baki UNSW, Canberra	Cyclic liquefaction behavior of granular materials with fines.	Graduated in Dec., 2011

OTHER SUPERVISION

I have supervised 7 Masters Projects and 12 honours projects (25 undergraduate students) to the completion and

REVIEWER OF INTERNATIONAL JOURNALS

Géotechnique, ICE, UK, 2013-
Journal of Geotechnical and Geoenvironmental Engineering, ASCE, 2012-
Canadian Geotechnical Journal, Canada, from 2009-
Engineering Geology, 2013-
Géotechnique Letter, ICE, UK, 2015-
Environmental Geotechnics, ICE, UK, 2015-
Soils and Foundations, 2013-
Geotechnical Testing Journal, 2013-
International Journal of Geomechanics, ASCE, 2013-
Journal of Materials in Civil Engineering, ASCE, USA, 2012-
Advances in Civil Engineering Materials, ASTM, USA, 2012-
Soil Dynamics and Earthquake Engineering, Elsevier, 2015-
Geomechanics and Geoengineering: An International Journal, Taylor & Francis, 2015-
Coastal Engineering Journal, World Scientific, From 2010-
Construction Materials, 2014-
Proceedings of ICE, Geotechnical Engineering, UK, from 2010-
KSCS Journal of Civil Engineering (Springer), Korea, from 2010-
JPGE Journal of Petroleum and Gas Engineering, Academic journals, from 2010-
Geotechnical Engineering, SEAGS: Southeast Asian Geotechnical Society, 2011-
Australian Journal of Civil Engineering, Engineers Australia, 2011-
Australian Geomechanics, AGS, Australia, 2011-
International Journal of Geotechnical Earthquake Engineering, IGI Global, 2012-
International Journal of Advances in Civil Engineering and Architecture, 2012-
Journal of Zhejiang University, 2013-

ORGANIZING CONFERENCES

International advisory committee member, International Conference on Planning, Architecture and Civil Engineering (ICPACE 2017) on 09 -11 February, 2017, Rajshahi, Bangladesh.

Technical committee member, International Conference on Geomechanics, Geo-energy and Geo-resources (IC3G 2016), 3GDeep, 28-29 September, 2016, Melbourne, Australia.

Organizing Chair, Symposium on the effect of fines on liquefaction behaviour as part of the 6th International Conference on Earthquake Geotechnical Engineering, 1-4 November, 2015, Christchurch, New Zealand.

Session Chair, 11th Australia - New Zealand Conference on Geomechanics: Ground Engineering in a Changing World, 15 – 18 July, 2012, Melbourne, Australia,

PUBLICATION

PUBLICATIONS SUMMARY

The following is a summary of my publications in selected top-ranked journals and the ranking of the journals according to Journal Citation Reports (JCR) based on wed of science 2016; SCImago Journal Rank based Scopus 2015 and ERA2010.

Table 4: quality of journal publications

Name of the Journal	No. of contribution	Source of Impact		Ranking			
		SJR Scopus	JCR impact factor	SCImago Journal Rank (Scopus)	Journal Citation Reports (JCR, web of science)	ERA2010	Tier 1
Géotechnique	4	2.837	2.395	3/292, Q1 Earth and planetary, Geotech & geology	Q1 Engineering, Geological Science	A*	Y
Journal of geotech. and geoenviron. engineering, ASCE	8	2.344	2.464	4/292, Q1 Earth and planetary, Geotech & geology	Q1 Engineering, Geological Science	A*	
Canadian Geotechnical Journal	5	2.093	2.138	9/292, Q1 Earth and planetary, Geotech & geology	Q1 Engineering, Geological Science	A*	
Acta Geotechnica	2	1.818	2.426	14/292, Q1 Earth and planetary, Geotech & geology	Q1, Engineering, Geological Science	B	Y
International Journal of Geomechanics, *ASCE*	1	1.762	2.136	7/112, Q1 Agriculture and Biology, Soil science	Q2 Engineering, Geological Science	A	
Soil dynamics and earthquake engineering	3	1.516	1.545	19/292, Q1 Earth and planetary, Geotech & geology	Q2 Engineering, Geological Science	A	
Journal of materials in Civil Engg. ASCE	2	0.965	1.644	23/269, Q1 Building and construction	Q2 Construction & building technology	A	
Soils and Foundations	1	1.623	1.088	17/292, Q1 Earth and planetary, Geotech & geology	Q3 Engineering, Geological Science	A	Y
Geomechanics and Geoengineering	4	0.558	---	57/292, Q1 Earth and planetary, Geotech & geology	---	B	

PUBLICATIONS

Editorial

2016 1. **Rahman, M. M.** (2016) "Editorial." Geotechnical Research, 3(2), 29-30. doi:10.1680/jgere.2016.3.2.29.

2014 2. Rahman, M. M., and Lo, S.-C. R. (2014). "Editorial" Geotechnical Research, ICE (UK), 1(2), 52-52. doi: 10.1680/gr.2014.1.2.52

Booked Chapters

2016 3. **Rahman, M. M.**, and Sitharam, T. G. (2016). "Post-liquefaction Data Collection and Analyses for Earthquakes in New Zealand." Chapter 17 in in Forensic Geotechnical Engineering, V. V. S. Rao, and G. L. Sivakumar Babu, eds., Springer, 241-253. ISBN: 978-81-322-2376-4, doi:10.1007/978-81-322-2377-1_17

2015 4. Nguyen, H. B. K., **Rahman, M. M.**, Cameron, D. A., and Fourie, A. B. (2015). "The effect of consolidation path on undrained behaviour of sand - A DEM approach." Chapter 24 in Computer Methods and Recent Advances in Geomechanics, A. M. Fusao Oka, Ryosuke Uzuoka, Sayuri Kimoto, ed., CRC Press: Taylor & Francis Group, 175-180. ISBN: 9781138001480 - CAT# K22691, doi:10.1201/b17435-27

2008 5. **Rahman, M. M.**, Karim, M. R., Baki, A. L., and Paul, D. K. (2008). "Ultimate lateral load resistance of laterally loaded pile." Chapter 13 in Deep Foundations on Bored and Auger Piles - BAP V: 5th International Conference on Bored and Auger Piles, BAPV, W. F. V. Impe, and P. v. Impe, eds., CRC Press: Taylor & Francis Group, Ghent, Belgium, 155-159. ISBN: 978-0-415-47556-3, doi:10.1201/9780203882870.ch13

Peer Reviewed Journals

2018 6. Nguyen, H. B. K., **Rahman, M. M**., and Fourie, A. B. (Accepted). "Chatacteristic behaviour of granular materials, critical state and fabric: DEM approach." *Journal of geotechnical and geoenvironmental engineering, ASCE* [4th of 292 in SCImago Journal Rank and Impact factor of 2.464, JCR Q1, ERA2010: A*] (reviewers requested minor correction)

7. **Rahman, M. M.**, Lo, R., Goudarzy, M. and Schanz, T. (2018) Shear wave velocity and stiffness of sand: the role of non-plastic fines. *Geotechnique* 0 (0):1-4. doi:10.1680/jgeot.16.D.006

8. Rabbi, A. T. M. Z., **Rahman, M. M.** and Cameron, D. A. (2017) "Undrained Behaviour of Silty Sand and the Role of Isotropic and K0 Consolidation" *Journal of geotechnical and geoenvironmental engineering, ASCE*, 10.1061/(ASCE)GT.1943-5606.0001859 [4th of 292 in SCImago Journal Rank and Impact factor of 2.464, JCR Q1, ERA2010: A*]**.**

9. Zhang, J., Lo, S. R., **Rahman, M. M.** and Yan J. (2017) "Monotonic behavior of paste-deposited pond ash under critical state soil mechanics framework" *Journal of geotechnical and geoenvironmental engineering, ASCE*, doi: 10.1061/(ASCE)GT.1943-5606.0001798 [4th of 292 in SCImago Journal Rank and Impact factor of 2.464, JCR Q1, ERA2010: A*]

2017 10. Nguyen, H.B.K and **Rahman, M.M.** (2017). "The role of micro-mechanics on the consolidation history of granular materials" *Australian Geomechanics* [89th

of 292 in SCImago Journal Rank, ERA2010: B] (reviewers requested minor correction).

11. Goudarzy, M., Rahemi, N., **Rahman, M. M,** and Schanz, T. (2017). "Predicting the maximum shear modulus of sands containing non-plastic fines" *Journal of geotechnical and geoenvironmental engineering.* doi: 10.1061/(ASCE)GT.1943-5606.0001760 [4th of 292 in SCImago Journal Rank and Impact factor of 2.464, JCR Q1, ERA2010: A*]
12. Cameron, D. A **Rahman, M. M.** and Azam, A. M., (2017) "Discussion of "State-of-the-Art: Prediction of Resilient Modulus of Unsaturated Subgrade Soils" *Journal of Material in Civil engineering, ASCE* , [23rd of 269 in SCImago Journal Rank and Impact factor of 2.644, JCR Q2, ERA2010: A]
13. **Rahman, M. M.,** Khayyer, F., and Karim, M. R. (2017). "Effect of Particle Shape and Fine Content on the Behavior of Binary Mixture." *Journal of Engineering Mechanics,* doi: 10.1061/(ASCE)EM.1943-7889.0001323 [127rd of 718 in SCImago Journal Rank and Impact factor of 1.764, JCR Q2, ERA2010: A]
14. Nguyen, H. B. K., **Rahman, M. M**., and Fourie, A. B. (2017). "Undrained behaviour of granular material and the role of fabric in isotropic and K0 consolidations: DEM approach." *Géotechnique*, 67(2), 153-167. doi: 10.1680/jgeot.15.P.234 [3rd of 292 in SCImago Journal Rank and Impact factor of 2.395, JCR Q1, ERA2010: A*]

2016

15. Goudarzy, M., **Rahman, M. M.**, König, D., and Schanz, T. (2016). "Influence of non-plastic fines content on maximum shear modulus of granular materials." *Soils and Foundations*, 56(6), 973-983. doi: http://dx.doi.org/10.1016/j.sandf.2016.11.003.. [17th of 292 in SCImago Journal Rank and Impact factor of 1.088, JCR Q3, ERA2010: A*]
16. Zhang, J., Lo, S.-C. R., Yan, J., and **Rahman, M. M.** (2016). "Is critical state soil mechanics framework applicable to pond ash?" *Japanese Geotechnical Society Special Publication*, 2(6), 292-297. doi:10.3208/jgssp.OTH-09
17. Cameron, D., Hopkins, C., and **Rahman, M.** (2016). "Hydrophobic Polymer Additive for Stabilization of Aggregates in Local Government Roads." *Procedia Engineering*, 143, 26-33. doi:10.1016/j.proeng.2016.06.004. [185 of 872 in SCImago Journal Rank]

2015

18. **Rahman, M.M.** and Lo, S.R. (2015) "Discussion of the paper: "Recommendations for extension and re-calibration of an existing sand constitutive model taking into account varying non-plastic fines content". *Soil Dynamics and Earthquake Engineering*, 70, 73-74. doi: http://dx.doi.org/10.1016/j.soildyn.2014.12.002. [19th of 292 in SCImago Journal Rank and Impact factor of 1.545, JCR Q2, ERA2010: A]
19. Azam, A. M., Cameron, D. A. and **Rahman, M. M.** (2015) "Permanent strain of unsaturated unbound granular materials from construction and demolition Waste" *Journal of Materials in Civil Engineering, ASCE*, 04014125. doi: 10.1061/(ASCE)MT.1943-5533.0001052. [23rd of 269 in SCImago Journal Rank and Impact factor of 2.644, JCR Q2, ERA2010: A]

2014

20. **Rahman, M.M.,** Lo, S.-C. R., and Dafalias, Y. F. (2014). "Modelling the static liquefaction of sand with low-plasticity fines." *Géotechnique*, **64**(11), 881-894. doi:10.1680/geot.14.P.079. [3rd of 292 in SCImago Journal Rank and Impact factor of 2.395, JCR Q1, ERA2010: A*]

21. **Rahman, M. M.** and Lo, S. R. (2014) "Undrained behaviour of sand-fines mixtures and their state parameters" *Journal of geotechnical and geoenvironmental engineering, ASCE*, **140**(7), 04014036. doi:10.1061/(ASCE)GT.1943-5606.0001115. [4th of 292 in SCImago Journal Rank and Impact factor of 2.464, JCR Q1, ERA2010: A*]

22. Baki, M.A.L., **Rahman, M. M.** and Lo, S. R. (2014) "Predicting onset of cyclic instability of loose sand with fines using instability curves" *Journal of Soil Dynamics and Earthquake Engineering*. Elsevier, **61–62**, 140-151. doi: 10.1016/j.soildyn.2014.02.007 [19th of 292 in SCImago Journal Rank and Impact factor of 1.545, JCR Q2, ERA2010: A]

23. **Rahman, M. M.**, Baki, M.A.L. and Lo, S.R. (2014) "Prediction of undrained monotonic and cyclic behavior of sandy soils based on equivalent granular state parameter" *International Journal of Geomechanics*, ASCE, **14**(2), 254-266, doi: 10.1061/(ASCE)GM.1943-5622.0000316. [7th of 112 in SCImago Journal Rank and Impact factor of 2.136, JCR Q2, ERA2010: A]

24. Rabbi, A.T.M.Z., **Rahman, M. M.** and Cameron, D. 2014. "Prediction of collapse potential for silty glacial sand" *Australian Geomechanics* **49**(3): 65-77, [89th of 292 in SCImago Journal Rank, ERA2010: B].

2013

25. Azam, A. M., Cameron, D. A. and **Rahman, M. M**. (2013) "A model for prediction of resilient modulus incorporating matric suction for recycled unbound granular materials" *Canadian Geotechnical Journal*. **50**(11), 1143-1158, doi: 10.1139/cgj-2012-0406 [9th of 292 in SCImago Journal Rank and Impact factor of 2.138, JCR Q1, ERA2010: A*]

26. **Rahman, M. M.** and Lo, S. R. (2013) "Closer to Predicting the onset of static liquefaction of loose sand with fines by Rahman and Lo" *Journal of geotechnical and geoenvironmental engineering*, ASCE, USA. **139**(10), 1845-1846, doi:10.1061/(ASCE)GT.1943-5606.0000966. [4th of 292 in SCImago Journal Rank and Impact factor of 2.464, JCR Q1, ERA2010: A*]

27. **Rahman, M. M.** and Lo, S. R. (2013) "Discussion of the paper: Effect of physical parameters on static undrained resistance of sandy soil with low fines content" *Soil dynamics and earthquake engineering*, **52**, 138-140, doi: 10.1016/j.soildyn.2012.09.009 [19th of 292 in SCImago Journal Rank and Impact factor of 1.545, JCR Q2, ERA2010: A]

28. Bobei, D. C., Wanatowski, D., **Rahman, M. M.,** Lo, S. R., and Gnanendran, C. T. (2013). "The effect of drained pre-shearing on the undrained behaviour of loose sand with a small amount of fines." *Acta Geotechnica*, **8**(3), 311-322, doi:10.1007/s11440-012-0195-2. [14th of 292 in SCImago Journal Rank and Impact factor of 2.426, JCR Q1, ERA2010: B]

29. **Rahman, M. M**., and Nguyen, H. B. K. (2013). "Spatial variability of material parameter and bearing capacity of clay." *Advanced Materials Research*, **629**, 433-437, doi:10.4028/www.scientific.net /AMR.629. 433. [ERA2010, B]

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45. Lo S. R and **Rahman, M. M.** (2011) "Static and cyclic liquefaction of sand with fines" The 3rd International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation (GEDMAR2011), 17-20 May, Semarang, Central Java, Indonesia, World Scientific, pp.109-125. doi:10.1142/9789814365161_0011.

Geotechnical Special Publication (GSP), ASCE (Peer reviewed)

Geotechnical Special Publication (GSP) is a special publication by Geo-Institute, ASCE from a theme conference. The manuscripts are rigorously reviewed, published and archive in ASCE database which usually carries higher weighting than regular peer reviewed conference to geotechnical engineering academics.

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49. Zhang, J., Lo, S. R., **Rahman, M. M**. and Yan J. (2014) "Monotonic Behaviours of Pond Ash under Critical State Soil Mechanics Framework" GeoCongress2014, GSP 234, February 23-26, Atlanta, GA, USA, ISBN 978-0-7844-1329-6, 352-361. doi:10.1061/9780784413272.035.
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51. Azam, A. M., Cameron, D. A., Gabr, A. G. and **Rahman, M. M.** (2014) "Matric Suction in Recycled Unbound Granular Materials" GeoCongress2014, GSP 234,

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54. Yazdi, S. J., **Rahman, M. M.** and Cameron, D. (2014) "Effect of Nail Layout Variability on Soil Nailed Wall Analysis" GeoCongress2014, GSP 234, February 23-26, Atlanta, GA, USA, ISBN 978-0-7844-1329-6, p. 3133-3142, doi:10.1061/9780784413272.305.

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55. Baki, M. A. L., **Rahman, M. M.** and Lo, S. R. (2012) "Cyclic Instability Behaviour of Coal Ash" GeoCongress 2012 - State of the Art and Practice in Geotechnical Engineering, GSP-225, the Geo-Institute of ASCE, Oakland, California USA, March 25-29, 2012. doi: 10.1061/978078 4412121.088. [ERAID: 42853, A]
56. Cameron, D. A., Azam, A.H. and **Rahman, M. M.** (2012) "Recycled Clay Masonry and Recycled Concrete Aggregate Blends for Pavements" GeoCongress 2012 - State of the Art and Practice in Geotechnical Engineering, GSP-225, the Geo-Institute of ASCE, Oakland, California USA, March 25-29, 2012. doi: 10.1061/9780784412121.158. [ERAID: 42853, A]

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58. Baki, A. L., **Rahman, M. M.** and Lo, S. R. (2011) "Equivalent Granular State Parameter in Predicting Different Cyclic Liquefaction Behaviours of Silty Sand" Geofrontiers, 2011, GSP-211, the Geo-Institute of ASCE, 13-16 March, Dallas, Texas, USA. 1574-1584. doi: 10.1061/41165(397)161 [ERAID: 42853, A]
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Peer Reviewed Conferences

2018

62. Rahman, M. M., Beecham, S. and Macitine, E (2018) "A new mechanistic design option for concrete block pavement". ICCBP 2018, Soul, South Korea.

2017

63. Cameron, D., Hopkins, C., and **Rahman, M.** (2017)."Evaluation of additives for insitu recycling of local government roads." Proc., The Institute of Public Works Engineering Australasia Conference, The Institute of Public Works Engineering Australasia, Perth, Australia.
64. **Rahman, M. M.,** Nguyen, H. and Rabbi, Z. (2017) "Unconfined compressive strength of microbial induced calcite precipitation (MICP) treated soils" Proceedings of the 19th International Conference on Soil Mechanics and Geotechnical Engineering, 17-22 September, Seoul, Korea.
65. **Rahman, M. M.** and Hora, N. H. (2017) "Undrained behaviour of sand under isotropic and K0-consolidated condition: Experimental and DEM approach" Proceedings of the 19th International Conference on Soil Mechanics and Geotechnical Engineering, 17-22 September, Seoul, Korea.

2016

66. **Rahman, M. M**. (2016) "Constitutive modelling the undrained behaviour of sand with fines." Proc., International Conference on Geomechanics, Geo-energy and Geo-resources (IC3G 2016), 3GDeep, 28-29 September, Melbourne, Australia, 1-8.
67. **M.M. Rahman** and H.B.K Nguyen (2016) "Triggering of static liquefaction behaviour of undrained granular materials: A DEM study." Proc., International Conference on Geomechanics, Geo-energy and Geo-resources (IC3G 2016), 3GDeep, 28-29 September, Melbourne, Australia, 1-7.
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69. Hora, R. N., **Rahman, M. M.**, Beecham, S., and Karim, M. R. (2016) "A review of the unconfined compressive strength of microbial induced calcite precipitation treated soils" 5th International Conference on Geotechnical and Geophysical Site Characterisation, ICS'5, Gold Coast, 5-9 September, 2016.
70. Cameron, H., Cameron, D., **Rahman, M. M.**, and Rabbi, A. (2016). "Evaluation of recycled aggregate treated with dry powder polymer and lime." Proc., 27th ARRB Conference – Linking people, places and opportunities, ARRB Group Melbourne, Australia, 1-13. https://www.arrb.com.au/admin/file/content128/c6/5.4.3%20Hopkins.pdf
71. Cameron, D. A., Hopkins, C. and **Rahman, M. M.** (2016) " Hydrophobic Polymer Additive for Stabilization of Aggregates in Local Government Roads" The International Conference on Transportation Geotechnics, Guimarães, Portugal, 4-7 September, 2016, 26-33

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72. **Rahman, M. M.**, Lo, S. C. R., and Dafalias, Y. (2015)."Constitutive modelling of static liquefaction of sand with fines." Proc., 6th International Conference on Earthquake Geotechnical Engineering, 1-4 November, Christchurch, New Zealand, paper no.: 430, p. 431-438. Web-link: https://secure.tcc.co.nz/ei/images/ICEGE15%20Papers/Rahman_430.00.pdf
73. Yan J., Lo, S. R., **Rahman, M. M.** and Zhang, J. (2015) "Critical state of coal ash and its evolution for stress states" The 15th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering (15ARC), 9-13 November, Fukuoka, Japan.
74. Baki, M. A. L., **Rahman, M. M.** and Lo S.R. (2015) "Excess pore water pressure generation of loose silty sand under cyclic loading" 6th International Conference

on Earthquake Geotechnical Engineering, 1-4 November, Christchurch, New Zealand, paper no: 187, p. 181-189.

75. Baki, M. A. L., **Rahman, M.M.** and Lo, S. R. (2015) "The Role of Initial Static Shear Stress on Mode of Cyclic Liquefaction" 12th Australia New Zealand Conference on Geomechanics, 22nd - 25th February, Wellington, New Zealand, paper no: 106, p. 1-8.
76. Rabbi, A. T. Z., **Rahman, M.M.** and Cameron, D. A. (2015) "Instability Behaviour of Natural Sand with Fines" 12th Australia New Zealand Conference on Geomechanics, 22nd - 25th February, Wellington, New Zealand
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79. Rabbi, A. T. M. Z, Cameron, D. A. and **Rahman, M. M.** (2014) "Role of matric suction on wetting-induced collapse settlement of silty sand" 6th International Conference on Unsaturated Soils (UNSAT 2014), Sydney, 2-4 July, p.129-135

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80. **Rahman, M. M.,** Baki, M. A. L. and Lo, S. R. (2013) "Instability behaviour of sand with different types of fines" 18th Southeast Asian Geotechnical & Inaugural AGSSEA Conference, 29 - 31 May 2013, Singapore, pp.473-478. doi: 10.3850/978-981-07-4948-4 279
81. Cameron, D. A., **Rahman, M. M.,** Azam, A. M., Gabr, A. G., Andrews, R., Mitchell, P. W. (2013) "The Use of Recycled Aggregates in Unbound Road Pavements" Proceedings of the 18th International Conference on Soil Mechanics and Geotechnical Engineering, Paris, France.
82. **Rahman, M. M.,** and Sitharam, T. G. (2013). "Post-liquefaction data collection and analyses for earthquakes in New Zealand." Proc., 4th International Seminar on Forensic Geotechnical Engineering, 10-12 January, Bengaluru, India, pp.450-462.

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83. **Rahman, M. M.** and H.B.K. Nguyen (2012) "Applications of random finite element method in bearing capacity problems." Proc., The Sixth International Conference on Advanced Engineering Computing and Applications in Sciences (ADVCOMP 2012), XPS (Xpert Publishing Services), 23-28 September, Barcelona, Spain, pp.53-58.
84. **Rahman, M. M.** (2012). "Modelling the behaviour of sand with fines using equivalent void ratio." Proc., 11th Australia - New Zealand Conference on Geomechanics: Ground Engineering in a Changing World, 15 – 18 July, Melbourne, Australia, pp.656-661. [***one of the four short listed best young geotechnical professional papers***]
85. **Rahman, M. M.** and Nguyen, H. B. K. (2012) "Spatial variability of material parameter and bearing capacity of clay" International Conference on Applied Physics and Materials Science (APMS 2012), October 5-6, 2012, Dalian, China [Later this paper was published in Advanced Material Research]
86. Baki, M. A. L., **Rahman, M. M.** and Lo (2012) "Different Forms of Cyclic Liquefaction Behaviours of Coal Ash" Proc., 11th Australia - New Zealand Conference on Geomechanics: Ground Engineering in a Changing World, 15 –

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87. Arefi, M. J., Cubrinovski, M., and **Rahman, M. M.** (2012). "Effects of fines on stress-strain behaviour of sands." Proc., 11th Australia - New Zealand Conference on Geomechanics: Ground Engineering in a Changing World, 15 – 18 July, Melbourne, Australia, pp.871-876.
88. Cameron, D., Gabr, A. R., Azam, A. M., **Rahman, M. M.,** Andrews, R., and Mitchell, P. W. (2012). "Sustainable aggregates for unbound granular pavements." Proc., 11th Australia - New Zealand Conference on Geomechanics: Ground Engineering in a Changing World, 15 – 18 July, Melbourne, Australia, pp.846-851.
89. Azam, A., Cameron D. A. and **Rahman, M. M.** (2012) "Blended recycled clay masonry and crushed concrete aggregate in bases" 2nd International Conference on Transportation Geotechnics (ICTG) Hokkaido, Japan, p.281-287, Doi: 10.1201/b12754-39

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90. Cameron, D. A., Azam, A.H. and **Rahman, M. M.** (2011) "Properties of Recycled Demolition Waste for Pavement Construction" International Conference on Advances in Geotechnical Engineering, 7 - 9 November, Perth, Australia, pp.393-398, ISBN: 978-0-646-55142-5.
91. **Rahman, M. M.** and Lo (2011) "Effect of fines and fines type on the undrained behaviour of sandy soil under critical state soil mechanics framework" The 3rd International Conference on Geotechnical Engineering for Disaster Mitigation and Rehabilitation (GEDMAR2011), 17-20 May, Semarang, Central Java, Indonesia, World Scientific, pp. 403-408. doi:10.1142/9789814365161_0050.
92. **Rahman, M. M.**, Baki, A. L. and Lo, S.R. (2011) "Prediction of undrained monotonic and cyclic behaviour of sandy soils based on equivalent granular state parameter" IACMAG2011, 9-11 May, Melbourne, Australia, pp. 839-844. [ERAID: 43196, A]

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93. **Rahman, M. M.,** Cubrinovski, M. and Lo S.R. (2010) "Initial shear modulus of sandy soil and equivalent granular void ratio" 11th IAEG Congress, 2010, 5-10 September, Auckland, New Zealand, pp. 623-630.
94. **Rahman, M. M.,** Lo, S. R. and Cubrinovski, M. (2010) "Effect of fines and fines type on the liquefaction behaviour of sandy soil" Bangladesh Geotechnical Conference 2010: Natural Hazards and Countermeasures in Geotechnical Engineering, 4-5 November, Dhaka, Bangladesh, pp. 311-316.
95. Baki A. L., Lo S.R. and **Rahman, M. M.** (2010) "Effect of cyclic stress reversal on cyclic instability behaviour of loose sand-silt mixtures" 11th IAEG Congress, 2010, 5-10 September, Auckland, New Zealand, pp. 1649-1656.
96. Mofiz, S. A. and **Rahman, M. M.** (2010) "Shear strength behavior of barind soil on triaxial extension stress path tests" 11th IAEG Congress, 2010, 5-10 September, Auckland, New Zealand, pp. 2249-2256.
97. Mofiz, S. A. and **Rahman, M. M.** (2010) "Evaluation of failure load-deformation characteristics of geo-reinforced soil using simplified approach" 11th IAEG Congress, 2010, 5-10 September, Auckland, New Zealand, pp. 4383-4392.
98. **Rahman, M. M.**, Lo S.R. and Mofiz, S. A. (2010) "Artificial Neural Network in CPT base liquefaction prediction" Proc. 17th South East Asia Geotechnical Conference, Taiwan, May 10-13, 2010. Vol.2, pp.343-346

99. Baki, A. L., **Rahman, M. M.** and Lo S.R. (2010) “Cyclic undrained behaviour of silty sand under partial cyclic reversal” Proc. 17th South East Asia Geotechnical Conference, Taiwan, May 10-13, 2010, Vol.2, pp.427-430

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101. Baki, A. L., Lo, S. R., and **Rahman, M. M.** (2010) "Cyclic instability behaviour of sand silt mixture under partial cyclic reversal loading." 5th International conference on recent advances in geotechnical earthquake engineering and soil dynamics, 24-29 May, San Diego, California, USA. pp.1-8

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102. **Rahman, M. M.** and S. R. Lo (2009). “On equivalent granular SSL for sand with fines.” 17th International Conference on Soil Mechanics & Geotechnical Engineering, Alexandria, Egypt, pp.205-208, doi: 10.3233/978-1-60750-031-5-205

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103. **Rahman, M. M.**, Karim, M. R., Baki, A. L. & Paul, D. K. (2008) "Ultimate lateral load resistance of laterally loaded pile." 5th International Conference on Bored and Auger Piles, BAPV, Ghent, Belgium. pp.155-159, doi: 10.1201/9780203882870.ch13.

104. Lo, S. R., **Rahman, M. M.**, and Bobei, D. C. (2008) "Limited flow behaviour of sand with fines under monotonic and cyclic loading” Proceedings of the 2nd International Conference on Geotechnical Engineering for Disaster Mitigation & Rehabilitation (GEDMAR08), Nanjing, China, pp.201-209, doi: 10.1007/978-3-540-79846-0

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106. **Rahman, M. M.**, and Lo, S. R. (2007) "On intergranular void ratio of loose sand with small amount of fines." 16th South East Asian Geotechnical Conference, Kuala Lumpur, Malaysia, pp.255-260.

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111. Bari, M. W., **Rahman, M. M.**, Ali, M. M. Y., and Awal, M. R. (2004) "An Approach of Slab Analysis by Finite Element Method." 7th International Conference on Concrete Technology in Developing Countries, Kuala Lumpur, Malaysia, pp.265-272.

2003 112. **Rahman, M. M.**, Alim, M. A., and Chowdhury, M. A. S. (2003) "Investigation of lateral load resistance of laterally loaded pile in sandy soil." 4th International Conference on Bored and Auger Piles, BAPIV, Ghent, Belgium, pp.209-215.

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2011 113. Arefi, M.J., Cubrinovski, M. and **Rahman, M. M.** (2011) “Effects of fines on stress-strain behaviour of sands” Pacific Conference on Earthquake Engineering (PCEE), 14-16 April 2011, New Zealand.