

CURRICULUM VITAE

Dr. AMANULLAH MARRI

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Educational and practical expertise in the following areas of Geotechnical Engineering:

- Advanced Soil Laboratory Testing
- Soil Foundation Interaction
- Soft Ground Improvement
- Geotechnical aspects of subgrade materials
- Offshore Foundation Problems
- Soil Stabilization, Reinforced Earth Structures
- Exploring the behaviour of cemented materials
- Exploring the behaviour of rocks as an engineering material

Current assignments

1. Working on a proposal for "soil mechanics laboratory infrastructure development".
2. Working on project titled "Development of Vs30 map for Karachi city".
3. Class advisor BE (Civil).
4. Supervision of commercial testing in the Soil Mechanics laboratory.
5. Computer applications in Geotechnical Engineering for Masters Students in the evening program.
6. Soil mechanics theory for third year and final years.
7. Engineering Materials for first year students.
8. Final year projects:
 - a) Dilatancy and yielding characteristics of fiber reinforced cemented materials.
 - b) Geotechnical investigation for hydraulic structures. A case study of Nara Canal Head Regulator.
 - c) Development of Vs30 map for Karachi city.

My future goals and ambitions are to be a well-versed research scholar and a professional teacher. I am eager to discover new horizons in the field of Geotechnical Engineering, by develop laboratory infrastructure for state of the art research facilitation and introducing numerical/analytical techniques for modeling soil behaviour, particularly in the cutting-edge geotechnical challenges, with the aspiration to serve my country both in academia and in industry.

EDUCATION

PhD	Civil Engineering (Field of specialization– Geotechnical Engineering) Nottingham Center for Geomechanics Faculty of Engineering, The University of Nottingham, UK	2010
ME	Civil Engineering (Field of specialization – Geotechnical and Geoenvironmental Engineering) Asian Institute of Technology, Bangkok-Thailand	2005
B.E.	Civil Engineering Quaid-e-Awam University of Engineering Science and Technology, Nawabshah Sindh	2001

AWARDS

1. Certificate of Excellency from Vice Chancellor Quaid-e-Awam University of Engineering Science and Technology, Nawabshah. Securing first class second position in BE (Civil Engineering) Degree.
2. Merit Scholarship from Higher Education Commission of Pakistan to Pursue M. Engineering Degree from abroad
3. Fully funded PhD scholarship from Higher Education Commission of Pakistan under faculty development program
4. Passed PhD degree without corrections and have been awarded a shield of honour by the Dean faculty of Engineering University of Nottingham

APPOINTMENTS

June 2012- to date	Professor Department of Civil Engineering NED University of Engineering & Technology, Karachi-75270
June 2011-June 2012	Associate Professor Department of Civil Engineering NED University of Engineering & Technology, Karachi-75270
Nov 2010-June 2011	Assistant Professor Department of Civil Engineering NED University of Engineering & Technology, Karachi-75270
Sept: 2006 –Nov 2010	PhD Research Scholar Nottingham Center for Geomechanics Faculty of Engineering, The University of Nottingham, UK
May 2005 – Sept: 2006	Assistant Professor Department of Civil Engineering, NED University of Engineering and Technology, Karachi-75270

August 2003 – May 2005	M Engg: Student Asian Institute of Technology, Bangkok Thailand
April 2002 – August 2003	Lecturer Department of Civil Engineering, NED University of Engineering and Technology, Karachi-75270

PUBLICATIONS

GENERAL PAPERS

- [1]. **Marri, A.**, Kumar, A. (2006) Hydrodynamic Pressure on Concrete dams during the Earthquakes. Mehran University Research Journal of Engineering and Technology, Volume 25, No. 2. Pp. 97-112.
- [2]. Ud-din, S., **Marri, A.** and Wanatowski, D. (2011), Effect of high confining pressure on the behaviour of fibre reinforced sand. *Geotechnical Engineering Journal of the SEAGS & AGSSEA* Volume. 42, No.4. pp. 69-76.
- [3]. **Marri, A.**, Wanatowski, D. and Yu, H.S. (2012). Drained behaviour of cemented sand in high pressure triaxial compression tests. *Geomechanics and Geoengineering: An International Journal*. Vol. 7, No. 3. pp. 159–174.
- [4]. Uddin, S. **Marri, A.**, and Kumar, A. (2012) Isotropic Compression Behaviour of Fibre Reinforced Cemented Sand, **accepted for publication** *Mehran University Research Journal of Engineering & Technology*.
- [5]. S. Uddin, **A. Marri**, and S. Memon, Undrained Behaviour of Fibre Reinforced Cemented Sand at High Pressures, **Submitted to** NED University Journal of Research.

CONFERENCE PAPERS

- [1]. **Marri, A.**, Wanatowski, D. and Yu, H.-S., 2010. Drained behaviour of cemented sand at high pressures. In: Proc. 17th Southeast Asian Geotechnical Conference, Taipei, 10-13 May 2010. Vol. 1, pp.17-20.
- [2]. **Marri, A.**, Kumar, A. (2006) "Hydrodynamic Pressure on Concrete dams during the Earthquakes" Mehran University Research Journal of Engineering and Technology, Volume 25, No. 2. pp 97-112.
- [3]. Tsai, M.-T., Wanatowski, D., **Marri, A.** and Ud-din, S, 2010. Undrained behaviour of cemented sand at high pressures. In: Proc. 17th Southeast Asian Geotechnical Conference, Taipei, 10-13 May 2010. pp. Vol. 1, 29-32.
- [4]. Ud-din, S., **Marri, A.**, Wanatowski, D. and Reddish, D. J., 2010. Effect of fibre reinforcement on drained behaviour of cemented sand. In: Proc. 17th Southeast Asian Geotechnical Conference, Taipei, May 10-13, 2010. Vol. 1, pp.134-138.
- [5]. **Marri, A.**, Wanatowski, D. and Yu, H.S. (2010) "The behaviour of cemented granular materials at high pressures" *The Spencer Institute Engineering Mechanics Symposium 2010. Poster presentation*.
- [6]. Ud-din, S., **Marri, A.** and Wanatowski, D. (2011) "Effect of High Confining Pressure on the Behaviour of Fibre Reinforced Cemented Sand" *The 5th International symposium on deformation characteristics of geomaterials Seoul, Korea*.

- [7]. Ud-din, S., **Marri, A.**, Wanatowski, D., and Reddish, D. J. (2011), Behaviour of cemented sand reinforced with polypropylene fibres. Proc. *14th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering*, Hong Kong, China, May 23-27, 2011, available on CD-ROM.
- [8]. **Marri, A.**, Wanatowski, D. and Yu, H.S. (2012). Dilatancy Characteristics of Cemented Sand at Relatively High Stresses. *Third International Conference on Construction in Developing Countries (ICCIDC-III)*, Bangkok, Thailand July 4-6, 2012. available on CD-ROM.
- [9]. S. Uddin, D. Wanatowski, M.R. Hall and **A. Marri**, (2012). Stress-Dilatancy and Micromechanics of Fibre-Reinforced Sand, Geosynthetics Asia 2012, 5th Asian Regional Conference on Geosynthetics, 13 to 16 December 2012, Bangkok, Thailand.
- [10]. D. Wanatowski, S. Ud-Din, M.R. Hall, **A. Marri**, Effect Of Discrete Fibres On The Stress-Dilatancy And Micromechanics Of Fibre-Reinforced Sand, Abstract accepted for Geosynthetics 2013, 1-4 April 2013, Long Beach, California, USA.
- [11]. Dariusz WANATOWSKI, Nor Zurairahetty MOHD YUNUS, Jhen Pei SEAH, Salah UD-DIN and **Amanullah MARRI**, Fibre reinforcement – a sustainable method of soil improvement, Abstract submitted to the 18th Southeast Asian Geotechnical Conference in Singapore (29-31 May, 2013)
- [12]. Salah UD-DIN, **Amanullah MARRI**, Dariusz WANATOWSKI, Effectiveness of fibre and cement in isotropic compression, Abstract submitted to the *18th Southeast Asian Geotechnical Conference* in Singapore (29-31 May, 2013)
- [13]. Salah UD-DIN, **Amanullah MARRI**, Strength and deformation characteristics of fibre reinforced cemented sand, Abstract submitted to *13th International Conference on Geotechnical Engineering*, March 2013, Lahore, Pakistan.

TEACHING AND TRAINING EXPERIENCE

UNIVERSITY TEACHING

NED University of Engineering & Technology, Karachi- Pakistan

Professor, Department of Civil Engineering

June 2012-present

Associate Professor, Department of Civil Engineering

June 2011- June 2012

Assistant professor, Department of Civil Engineering

Nov 2010-June 2011

Teaching the following courses:

Undergraduate-Soil Mechanics-II (Theory/Practical), Engineering Materials

Postgraduate-Rock Mechanics, Computer applications in Geotechnical Engineering, Foundation Engineering

Final year Projects- Three Groups

University of Nottingham UK

Demonstration

2007-2010

Undergraduate and M. Eng laboratory demonstrations and supervisions

NED University of Engineering & Technology

Assistant Professor, Department of Civil Engineering

May 2005 – Sept: 2006

Taught the following undergraduate courses so far: Soil Mechanics-I, Soil Mechanics-II, Soil Mechanics-I (Practicals), Soil Mechanics-II (Practicals), Surveying theory and Practical and Supervision of final year thesis projects

NED University of Engineering & Technology

Taught the following undergraduate courses: Soil Mechanics-I, Soil Mechanics-II, Soil Mechanics-I (Practicals), Soil Mechanics-II (Practicals), Surveying theory and Practicals

RESEARCH EXPERIENCE

Co-Supervision of M. Engineering Students at Nottingham Center for Geomechanics at the University of Nottingham

1. *The mechanical behaviour of uncemented sand and fiber reinforced cemented sands at high pressures*

Supervision of final year thesis projects at NED University:

1. *Modification and Calibration of Geotechnical Laboratory Equipments for Commercial Testing*

Research Advisor, NED University of Engineering & Technology-Pakistan

Research presents Evaluation of the available soil testing laboratory equipments, in terms of workability and accuracy, calibration and necessary modification techniques.

2. *Geotechnical Aspects of subgrade Materials*

Research Advisor, NED University of Engineering & Technology-Pakistan

Research presents a case study of subgrade materials in the locally constructed highway projects, their Laboratory characteristics, and effect of poor subgrade materials on pavement performance.

3. *Assessment of Seismic Slope Stability*

Research Advisor, NED University of Engineering & Technology-Pakistan

It focuses the study and investigation of slope stability parameters through laboratory experimentations.

PROFESSIONAL AFFILIATIONS

Pakistan Engineering Council Civil/21210

Review panel member of *Geotechnical Testing Journal*

Review panel member of *Sir Syed University Research Journal*

Review panel member of *Mehran University Research Journal*