



Name: Dr. Zein-Eddine Merouani

Rank: Assistant Professor – Civil Engineering

Personal Information

Nationality: Swedish

AU Joining Date: 26 Mar 2012

E-Mail Address: z.merouani@auk.edu.kw

Professional Information

Education:

Qualification: Doctorate

Major: Civil engineering

College/University: Royal Institute of Technology

Year: 2006/2007

Qualification: Masters

Major: Civil engineering

College/University: Glasgow University **Year:** 1987/1988

Qualification: Bachelor

Major: Civil engineering

College/University: Ecole Nationale Polytechnique

Year: 1984/1985

Specialization:

Geotechnical Engineering

Geo-environmental Engineering

Structural Engineering

Current Academic Position:

Assistant Professor

Current Professional Positions:

NA

Previous Administrative Position Held:

Director of Scientific Information and Technical Assistance, CNERIB

Previous Academic Positions Held:	Lecturer
Fellowships And Honors:	NA
Teaching Experience:	• 2002-2012 Royal Institute of Technology KTH , Sweden: teaching in graduation and post-graduation programs / supervising master degree students • 1992-2001 Blida University, Algeria: teaching in graduation and post-graduation programs / supervising master degree students • 1988-1992 Algiers University USTHB, Algeria: teaching in graduation programs
Industrial And Technical Experience:	• <u>2008-2012 Sweco AB, Sweden</u>: design civil engineer dealing with geotechnical engineering as well as structural engineering • <u>2006-2008 Grontmij AB, Sweden</u>: design civil engineer dealing with geotechnical engineering as well as structural engineering • <u>2005-2006 Carl Bro AB, Sweden</u>: design civil engineer dealing with geotechnical engineering as well as structural engineering • <u>1996-2001 SCTE-Brown & Root, Algeria</u>: design civil engineer dealing with geotechnical engineering as well as structural engineering • <u>1988-1996 CNERIB (research centre), Algeria</u>: research engineer and head of department
Research Interest:	Stability analysis of slopes in saturated and non-saturated soils Design of excavations, shafts and ground anchors Design of shallow and deep foundations Design of retaining structures Soil stabilization with deep mixing method (lime-cement columns) Finite element analysis for various problems Risk mitigation and reliability analysis
Research Grants:	• <u>2020-2021 Kuwait Foundation for the Advancement of Sciences (KFAS) The behavior of Palm Tree Frond concrete</u> • <u>2006-2010 Swedish Fund for Research in Building Sector SBUF</u> Excavating in moraine and hard soils • <u>2002-2006 Swedish Fund for Research in Building Sector SBUF</u> Reliability of anchored geo-structures • <u>1998-2001 Algerian Ministry of Habitat and Construction</u> Behavior of masonry constructions under seismic loading
Research and Publications including Journal and Books:	2017 Z. Merouani & S. Hintze, Behavior of shallow strip anchors in sand: a finite element study, Journal of Engineering and Science Research 1-2 01-06 2011 Z. Merouani & S. Hintze, The design of ground anchors, chapter in book entitled Introduction to Geotechnical Engineering, OPU Algeria

Paper Presentations at Professional Conferences:	2020 T. Ahmed, D. Bahzad, A. Al-Marshed, Z. Merouani and M. Omar, "Evaluating the Characteristics of Crumb Rubber Modified Asphalt Binders Produced with Neat Bitumen-Case of Kuwait," Lecture Notes in Civil Engineering, Vol. 76, Chapter 39, Proceedings of the 9th International Conference on Maintenance and Rehabilitation of Pavements (MAIREPAV9), Zurich Switzerland (Online) 2019 Z. Merouani, S. Hintze, T. Ahmed, S. Al-Ezza anchored pipe systems in stabilized clay using circular plates, International Conference on Smart Cities ICSC, Seoul, South Korea 2018 A. Lindgren, Z. Merouani & S. Hintze, Automated loading of non-cohesive soils, International Conference on Innovative Engineering Technologies, Kuala Lumpur, 6 pages 2010 Z. Merouani & H. Stille, Reliability of anchored sheet pile walls in cohesive soils, IEG, Stockholm, 8 pages 2008 Z. Merouani & H. Stille, Reliability of anchored sheet pile walls in cohesionless soils, IEG, Stockholm, 10 pages 2007 Z. Merouani, PhD: Behaviour of anchors in sand: Deterministic and probabilistic analysis, PhD thesis presented to the Royal Institute of Technology , Stockholm 2006 Z. Merouani & S. Hintze, Information-based design in geotechnical works: some examples, 13th Danube-European conference on geotechnical engineering, Ljubljana, 6 pages 2005 Z. Merouani, Reliability of geostuctures in clayey and sandy soils, Research Report presented to the Division of Soil and Rock Mechanics, Royal Institute of Technology, Sweden 42 pages 2004 Z. Merouani & S. Hintze, Statistical characterization of sand, 15th Southeast Asia Geotechnical Conference, Bangkok, pp 157-162 2004 Z. Merouani & T. G. Davies, Incipient yield in a Mohr-Coulomb material loaded by an intrusion, 15th Southeast Asia Geotechnical Conference, Bangkok, pp 121-126 2004 S. Hintze & Z. Merouani, The observational method and the use of additional geotechnical information during construction, Ystad, pp H81H93 2004 Z. Merouani & S. Hintze, Uncertainties, risks and construction estimates in tunnelling projects, Nordic Geotechnical Meeting, Ystad, pp I23-I38
---	--

	2003 S. Hintze & Z. Merouani, Risk management of SL24: Reliability analysis of a sheet pile wall, Reliability based design & optimization, RBO'03, Warsaw, 12 pages 2001 Z. Merouani & N. Bourahla, The behaviour of masonry structures under seismic loading, International Conference on Earthquake Engineering, Algiers, 8 pages 2000 Z. Merouani & L. Bessadi, The use of foamed concrete in the restoration of traditional houses, International Seminar on the restoration of ancient buildings and Casbah, Algiers, 10 pages 1997 Z. Merouani, The analysis of a soil loaded by a plate by the finite element method, 15th ICSMFE, Hamburg, pp 847-851 1995 A. Bouafia & Z. Merouani, Analysis of horizontally loaded pile behaviour from cone penetration tests in centrifuge, International symposium on cone penetration testing, CPT'95, Linkoping, Sweden pp 407-413 1992 A. Batata & Z. Merouani, Dune sand concrete: mix design and properties. International Conference on Concrete in Hot Climate, Biskra, Algeria , 8 pages (in French) 1988 Z. Merouani, Behaviour of anchor plates buried in Mohr-Coulomb soils, International conference on Geotechnical Engineering, Tlemcen, Algeria 12 pages (in French)
College Service including committee Membership:	2017-2018 PBL Committee 2015-2019 Geotechnical Committee 2014-2015 Academic advisor
National Service:	NA
School Committees:	2012-2014 Examination and Moderation Committee