

Name: **Dr. ASAD HAFUDH HUMAIH AL-DEFAE**

Date of Birth: **August 10<sup>th</sup>, 1978**

Nationality: **Iraqi**

Cell Phone: 07711015359

07803550076



Email: [asadaldefae@uowasit.edu.iq](mailto:asadaldefae@uowasit.edu.iq)

[eccikut@yahoo.com](mailto:eccikut@yahoo.com)

[asadaldefae@yahoo.com](mailto:asadaldefae@yahoo.com)

### **Education and Previous jobs:**

- **BSc. Bachelor degree** of Civil Engineering/ University of Al-Mustansiriya-Baghdad (1999-2000)
- **MSc. Master degree** in Civil Engineering/Geotechnical engineering- Al-Mustansiriya (2000- 2003). Title of Thesis: *Effect of Emulsified Asphalt-Salt Resistance Cement mixture on Engineering Properties of Gypseous Soil.*
- **Ph.D Doctoral of Philosophy** – School of engineering, Physics and Mathematics- **DUNDEE- UK** (2013). Title of Thesis: *Seismic Performance of Pile-Reinforced Slopes.*
- Head of engineering department in University of Wasit (2004-2006). Assistant dean in engineering college in UoWasit (Dec. 2009-April. 2010). Consultant in treatment plant project in Al-Numaniya Destrict and Al-Azeziya.
- Head of chemical and biological engineering laboratories in college of engineering.
- Deputy Dean for scientific affairs (2009-2010)

- Deputy Dean for Administrative and Legal Affairs at University of Wasit, College of Engineering (from 2018 to present)
- Foundation designer, footing failure assessor and site investigator eng.
- Assistant lecturer in University of Wasit (teaching soil mechanics, 3<sup>rd</sup> stage and foundation engineering, 4<sup>th</sup> stage for the period (2006-2010). No lecturer at the University of Wasit/ College of Engineering-civil eng. Dept.
- Reviewer in international journal of physical modeling in geotechnic (IJPMG).
- Scholarship in University of **Bochum-Germany** for three months (01/05/2005-31/07/2005).
- Membership of Iraqi Engineering Union since 2000. Now Consultant engineer.
- Membership of **British geotechnical engineering** (BGA) since 2013.

#### Published papers since 2011

- **A.H. AL-DEFAE; K. CAUCIS; J.A. KNAPPETT (2013). "Aftershocks and the whole-life seismic performance of granular slopes." *Géotechnique j.*, 63(14):1230-1244.**
- **A. H. AL-DEFAE and J. A. KNAPPETT (2014). "Centrifuge Modeling of the Seismic Performance of Pile-Reinforced Slopes." *J. Geotech. Geoenviron. Eng.*, 140(6), 04014014.**
- **A. H. AL-DEFAE and J. A. KNAPPETT (2015). "Newmark sliding block model for pile-reinforced slopes under earthquake loading. *J. of Soil Dynamic and Earthquake Engineering, SDEE J.* 75 ( ): 265-278.**
- **A. H. AL-DEFAE and J. A. KNAPPETT (2014). "Stiffness Matching of Model Reinforced Concrete for Centrifuge Modleing of Soil-Struvture Interaction.". *8th International Conference of Physical Modelig in Geotechnic.* Perth, Austailia, January 2014.**

- **A. H. AL-DEFAE and J. A. KNAPPETT (2012).** “Seismic Displacement of Cohesionless Slopes: Geotechnical Centrifuge Modelng.”. *12th Young Geotechnical Symposium*. University of Leeds. UK.
- **H. AL-DEFAE and KNAPPETT (2011):** Small – scale modelling of reinforced concrete piles. 1<sup>st</sup> Scientific conference for the Iraqi Culturall Attaché-Iraqi Embassy. University College of London (UCL). London . UK.
- **H. AL-DEFAE and J. A. KNAPPETT (2015).** An improved Newmark method for predicting the whole-life performance of pile-reinforced slopes. Proceeding of sixth International Conference of Earthquake Geotechnical Engineering. Christchurch, New Zealand.
- **Al-Baghdadi T. A., Brown M.J., Knappett J.A. and Al-Defae A.H.** Effect of vertical loading on lateral screw pile performance. *Geotechnical engineering Journal Proceeding ICE*. 170(3):259-272.
- **Knappett JA, Brown MJ, Shields L., Aldefae AH and Loli M (2018).** Variability of small scale model reinforced concrete and implications for geotechnical centrifuge testing. 9th International Conference of Physical Modleing in Geotechnics. 9th ICPMG2018. University of City London, UCL, London, UK.
- **Asad H. Humaish, Mohammed S. Shamkhi and Thulfiqar Kh. Alhachammi (2018).** Design, manufacturing and testing of small shaking table. *International Journal of Engineering and Technology, IJET* 7, 4(20) 426-430.
- **Asad H. Humaish, Mohammed S. Shamkhi and Thulfiqar Kh. Alhachammi (2018).** Design and Manufacturing Loading Rig Machine for Testing Screw Pile Models. *Journal of Engineering and Technology, IJET* 7, 4(20) 420-425.
- **Aldefae, A.H., Alkhafaji, R.A., Shamkhi, M.S. and Kumer, H.Q., 2019.** Design and manufacturing of flume apparatus to investigate the failure mechanism of riverbanks. *Cogent Engineering*, 6(1), p.1655234.
- **Aldefae, A.H., Shamkhi, M.S. and Khalaf, T., 2019.** Design and manufacturing of geotechnical laboratory tools used in physical modeling. *Cogent Engineering*, 6(1), p.1637622.

- **Aldefae AH, Alkhafaji RA. Experimental and numerical modeling to investigate the riverbank's stability. SN Applied Sciences. 2021 Feb;3(2):1-6.**
- **Aldefae AH, Mohammed J, Saleem HD. Digital maps of mechanical geotechnical parameters using GIS. Cogent Engineering. 2020 Jan 1;7(1):1779563.**
- **Aldelfee AN, Aldefae AH, Humaish WH. Quick Review of Seismic Behavior of Gravity Quay Wall. InIOP Conference Series: Materials Science and Engineering 2021 Feb 1 (Vol. 1058, No. 1, p. 012046). IOP Publishing.**
- **Alaayedi HK, Aldefae AH, Shamkhi MS, Humaish WH. Dynamic response of different bridge piers. InIOP Conference Series: Materials Science and Engineering 2021 Feb 1 (Vol. 1058, No. 1, p. 012045). IOP Publishing.**
- **Adnan S, Aldefae AH, Humaish WH. Soil erosion and the influenced factors: A review article. InIOP Conference Series: Materials Science and Engineering 2021 Feb 1 (Vol. 1058, No. 1, p. 012041). IOP Publishing.**
- **Aldelfee AN, Aldefae AH, Zubaidi SL. Numerical modeling of seismic performance of gravity quay wall. InIOP Conference Series: Materials Science and Engineering 2021 Feb 1 (Vol. 1058, No. 1, p. 012038). IOP Publishing.**
- **Aldefae AH, Edan AS, Essa AF. Fires Accidents and its Implication on Mechanical and Structural Properties of Different Construction Materials. InIOP Conference Series: Materials Science and Engineering 2021 Feb 1 (Vol. 1058, No. 1, p. 012026). IOP Publishing.**
- **Aldefae AH, Alkhafaji RA. Development of Equations Relates the Factors Affecting Riverbank Stability Using Dimensional Analysis. InIOP Conference Series: Materials Science and Engineering 2021 Feb 1 (Vol. 1058, No. 1, p. 012025). IOP Publishing.**
- **Aldelfee AN, Aldefae AH. Seismic performance of gravity quay wall. InIOP Conference Series: Materials Science and Engineering 2021 Feb 1 (Vol. 1058, No. 1, p. 012033). IOP Publishing.**
-