

Mr. ZIYAD MOHMAED ABUNADA

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Ziyad has more than ten years of academic and professional experience in the field of civil and environmental engineering. Following his work as a lecturer at Palestine Polytechnic, Ziyad commenced his PhD study where he is also doing the job of teaching assistant at Cambridge University. He is supervising two MEngl students in environmental engineering at the Cambridge University. Ziyad has gained excellent supervisory and leadership skills while he served as the president of the Islamic Development Bank Scholars Association in the UK (2013-2014). Mr Abunada has organized, chaired and participated in many international symposiums, workshops and conferences in Japan, Spain, USA, UK, UAE, Bahrain and recently in Australia.

Education

2011-2015	Ph.D, Civil and Environmental Engineering, University of Cambridge; UK (VIVA DONE)	Sustainable Groundwater Remediation Using Permeable Reactive Barrier System: Field Performance (http://www-g.eng.cam.ac.uk/smirt)
2006-2009	MSc. Water Resources Engineering Islamic University of Gaza-Palestine	Impacts of agricultural wastewater reuse
06/2005- 10/2005	Advance Course: Water Hiroshima Water Bureau, Japan.	Water supply and management for developing countries.
1995-2000	BSc. Civil Engineering, Islamic University of Gaza- Palestine	

Employment History

	Duties	Address
2011-Present	Teaching Assistant: Civil and Environmental Engineering Co-supervisor of two MPhil students in Civil Engineering	University of Cambridge- CB2 1PZ, Engineering Department
2007-2010	Lecturer: Civil engineering department (Water quality, Hydraulics, Solid waste management, Engineering Hydrology, Engineering Economy and Statistics	Palestine Polytechnique, Al Zahraa-Gaza.
2004-2008	Director of Water and Sanitation Department. Managing the water and wastewater service at Gaza local authority council.	Municipality of Zawaida (MOZ), Gaza,
2002-2004	Water Engineer- Water and Sanitation Department.	Municipality of Zawaida (MOZ),
2000-2002	Project Engineer-(Support to Municipal Development and Management) (SMDM)	Danish Project at Gaza Middle Area

International Conferences and Workshops

- Invited speaker to the 8th World Congress of Industrial Biotechnology (**ibio-2015**), Nanjing, China, April 2015.
- Invited Speaker to the Contaminated Site Management: Sustainable Remediation and Management of Soil, Sediment and Groundwater (**CSM-2014**), Brussels, November- 2014.
- Invited Speaker to the Regional Meeting at West Asia ‘‘Innovative Youth for Sustainable Future’’ - United Nation Environmental Program (**UNEP**) and Ministry of Youth & Sport- Manama, Bahrain- November,2013

Achievements and Awards

- Best paper award in the theme of Environment ‘First Arab Innovative Conference’’ (**AINAC, 2012**) Abu Dhabi, UAE.
- Cambridge Commonwealth, European & International Trust - Islamic Development Bank (**IDB**) PhD scholarship- October 2010
- Student Award and travel grant- American Geophysical Union (**AGU**) Fall Meeting 2013, San-Francisco USA.
- Cambridge Philosophical Society (**CPS**) travel award for the **12th Aquaconsoil Conference**, April 2013, Barcelona-Spain.
- Trusted Judger for **AINAC 2014** conference at Abu Dhabi - **UAE**.
- Islamic University of Gaza Scientific Research Centre (**SRC**) Second best master thesis award, **2009**

Publications

1. Nassar, A., Al Najar, H., Dawood, O., and **Abunada, Z.** (2015) Comprehensive decision approach for sustainable wastewater reuse using multicriteria decision analysis-gis. *J. of Eng. Res. and Tech.* 2 (1), 1-6.
2. **Abunada, Z.** and Nassar, A. (2014). Impacts of wastewater irrigation on soil and Alfalfa crop: Case study from Gaza strip, *Journal of Environmental Progress. and Sustainable Energy*, Article first published online: Sep. 2014 DOI: 10.1002/ep.12034
3. **Abunada, Z.** Al-Tabbaa, A., and Parkers, G. (2014). Groundwater and TEX removal using Inorgano-organo bentonite soil mix permeable reactive barrier, *Journal of Haz. Mat.* Submitted article.
4. **Abunada, Z.** and Al Tabbaa, Inorgano-organo- bentonites as permeable barrier for organic contaminants removal: proceeding of the 7th International Congress on Environmental Geotechnics (ICEG)- Engineers Australia, Melbourne, Australia (November, 2014).
5. Al-Tabbaa, A., Connor, D. O., and **Abunada, Z.**, Field trials for deep mixing in land remediation: execution, Monitoring and lessons learnt, International Conference on piling and deep foundation, Stockholm, Sweden, June, 2014
6. **Abunada, Z.** and Al-Tabbaa, Effectiveness of Permeable Inorgano-Organic Clay Barrier Materials in the Remediation of Chlorinated Contaminated Groundwater: proceeding of the Ninth International Conference on Remediation of Chlorinated and Recalcitrant Compounds held on May, 2014, Monterey, USA.
7. **Abunada, Z.** and Al Tabbaa, A. Initial investigation into the performance of a field trials deep soil mixed permeable reactive barrier system: proceeding of the 12th Aquaconsoil Conference on Groundwater-Soil Systems, Barcelona, Spain, (April 2013).
8. **Abunada, Z.** and Dawoud, O. (2012). Integration of GIS and Multicriteria analysis for sustainable agriculture wastewater reuse: proceedings of the first annual Arab innovation network conference, Abu Dhabi, UAE.

Reviewer for the following scientific Journals:

- Journal of Waste Management / Elsevier (ISI: Impact Factor: 3.157).
- Journal of Environmental Management / Elsevier (ISI: Impact Factor: 3.188).
- CLEAN – Soil, Air, Water / Wiley InterScience (ISI: Impact Factor: 1.838).
- Environmental Progress & Sustainable Energy / Wiley InterScience (ISI: Impact Factor: 1.271).

Professional memberships

- Royal Society of Chemistry (<http://www.rsc.org>)
- Institute of Civil Engineers (ICE-UK) In progress
- Islamic Development Bank (IDB)-UK Scholars Association, President- 2013-2014
- Cambridge University Engineering and Energy Society (CUEE)
- Cambridge University Environmental Consulting Society (CUEC)
- Queens college-Cambridge University, Middle Combination Room Council Acting member
- Cambridge University Philosophical Society.
- Japan International Corporation Agency (JICA)

Selected training and workshops

April /2013: Cambridge graduate school. Three days training and education camp. Main themes are proposal writing, fund raising, organizational behaviour and resources management. <http://www.admin.cam.ac.uk/offices/hr/cppd/gradschool/>

October 2012/April 2013: Cambridge Judge Business School, Centre of Entrepreneurial Learning, Series of evening lectures on business start-up. <http://www.cfel.jbs.cam.ac.uk/programmes/enterprisetsuesday>

June 2011: University of Cambridge Writing Skills Summer School (WSSS). Four day's intensive writing course. University of Cambridge

June 2008: 48hrs training course "Water tools for Water Resources Management", Centre of water studies, Al Azhar University, Gaza, Gaza Strip.

Miscellaneous:

Training courses at the United Nation-Small & Medium Enterprise Business Training Program (UN-SMET),

- Bids Pricing and Awarding Techniques.
- Materials testing and approval and quality assurance.
- Engineering project Management.
- Supervisory and Leadership Skills.
- Advance MS project for projects management.
- Health and Safety Aspects in Engineering Projects.
- Environmental Impact assessment for engineering projects

Organizational skills:

- Head Planner of the 1st IDB-UK First Scientific Symposium-Cambridge, 2014. More than 160 PhD students, academics and professionals from all over the UK universities joined a one day Symposium at Cambridge University-UK.
- Build a constructive coherent arguments and articulate ideas clearly to a range of audiences with different backgrounds. Constructively defend research outcomes at seminars and international conferences in USA, UK, Spain and Dubai.

Leadership skills

- President of the IDB-UK Scholars Association: Leading a multidisciplinary team forming the executive committee of the (IDB) UK Scholars Association <http://www.idbscholars.org>.
- Effectively support the learning of others through teaching, mentoring or demonstrating MEng modules.

- Vice President of the Cambridge University Arab Society.
- First year postgraduates' representative at Queens College Middle Combination Room (MCR).

Data collection and analysis:

- Quantitative and qualitative data collection and analysis including measurements, multi-criteria, expert's judgment, interviews and questionnaires, Decision support system DSS.

Leisure: Punting, Chess and Kayaking

References

Language Skills	Read	Write	Speak
Arabic	Native	Native	Native
English	Fluent	Fluent	Fluent
French	Basic	Basic	Basic

Referees:

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