

Dr. Ola Sawalha

Chemical Engineering Department, An-Najah National University, Nablus, Palestine
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CURRENT POSITION

Assistant Professor (part-time) at Chemical Engineering Department, An- Najah National University, January 2012 – Present

EDUCATION

• **PhD. Civil and Environmental Engineering, University of Edinburgh, United Kingdom, October 2005– June 2011**

Thesis title:” Capillary suction time (CST) test: developments in testing methodology and reliability of results”. Wastewater Filtration PhD Research Project.

• **BSc. Civil Engineering, An-Najah National University, Palestine, 1994 – 1999**

WORK EXPERIENCE

Assistant Professor (part-time), Chemical Engineering Department, An-Najah National University, Nablus, West Bank, Palestine. January 2012 - Present.

Statistical consultant (part time, online) at ALPHA Statistics Consultancy part of Fisher Statistics Consultancy/ Edinburgh, UK. November 2010 – present

- Helping in providing solutions and precision consulting to complex quantitative and qualitative problems through applying advanced statistical techniques.
- Helping in writing proposals which include solutions of complex problems with applications of statistical analysis methods and techniques.
- Helping in data analysis and statistical modelling including applying T-test, Box-Cox test, Anderson Darling test, Leaven’s test, ANOVA and ANCOVA and statistical modelling using linear regression analysis using Microsoft Excel 2007, SPSS Version 17.0 and MINITAB Version 15.1.

Teaching Assistant at University of Edinburgh, UK. January 2007- April 2010

Teaching and tutoring of undergraduate students in the following courses Civil Engineering 1(around 200 students 1styear student) and Water and Waste Water System 4 (around 35 students 4thyear student).

Research Assistant at University of Edinburgh, UK. October 2005- April 2010

Supervising and helping undergraduate, visitors (from Germany and France), and postgraduate students (master students) from civil and environmental engineering field in their studies and researches including laboratory trainings, data analysis and proof reading.

Certifications or professional registrations

Member of the Jordanian Engineers Association /Palestine, 1999- present

ADDITIONAL CAREER EXPERIENCE

- **Instructor/ Teaching assistant: An- Najah National University, Palestine, August 1999- January 2000.**
- **Research assistant: An- Najah National University, Palestine, August 1998- January 2000.**
- **Civil Engineer, AMRAH Company, Palestine, January-August 2000.**
- **Master Student/ University of Nebraska Lincoln, USA, 2004-2005.**

SOCIAL AND ORGANIZATIONAL SKILLS

Elected and voting member of EXCITE policy committee and council, Lincoln Public Schools, USA, 2003-2004.

COMPUTER SKILLS

- MS Office
 - Statistical software (i.e. SPSS, MINITAB)
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TRAINING

The following courses have been attended at the University of Edinburgh for educational and professional development (2006-2010): Time management for postgraduates; PhD thesis workshop; Mapping your mind and reading at speed; Proof reading; Writing a research paper in science and engineering; Effective writing; Graphing your data; How to be an effective researcher; Career strategies for PhD students.

AWARDS

- **PhD Studentship Award**, Triton Electronics Ltd, Essex, UK, 2005-2008.
 - **College Studentship Award**, Institute for Infrastructure and Environment/University of Edinburgh, UK, 2005-2008.
 - **Small Project Grants Award**, University of Edinburgh, UK, 2007.
 - **PhD Studentship Award**, University of Edinburgh, 2009-2011.
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COURSES TAUGHT:

BACHELOR COURSES:

- Environmental Engineering and Its Application

- Environmental Engineering
- Water and wastewater treatment
- Specific Topics in Chemical Engineering
- Graduation Project Supervision (Under graduate students)

PUBLICATIONS

REFEREED PAPERS:

- Sawalha, O., and Scholz, M. 2007. Assessment of capillary suction time (CST) test methodologies. *Environmental Technology*, 28, 1377-1386.
- Sawalha, O., and Scholz, M. 2009. Innovative enhancement of the design and precision of the capillary suction time testing device. *Water Environment Research*, 81, 2344-2352.
- Sawalha, O., and Scholz, M. 2010. Modeling the relationship between capillary suction time and specific resistance to filtration. *Journal of Environmental Engineering-ASCE*, 136, 983-991.
- Sawalha, O., and Scholz, M. 2012. Impact of temperature on the capillary suction time. *Industrial and Engineering Chemistry Research*, 51, 2782-2788.

BOOK:

- Sawalha, O., 2011. Capillary Suction Time Test: Developments in Testing Methodology and Reliability of Results. LAP LAMBERT Academic Publishing GmbH & Co., Saarbrücken, Germany, ISBN 978-3-8465-2602-6.

REFEREED CONFERENCES:

- Scholz M., Sawalha O. and Borges D. (2006), Review of capillary suction time testing. In Ubertini L. (ed.), *Proceedings of the Second International Association of Science and Technology for Development (IASTED) International Conference on 'Advanced Technology in the Environmental Field' (06-08/02/06)*, Lanzarote, Spain, ACTA Press, Calgary. ISBN: 088986-552-3, 106-111.
- Sawalha O. and Scholz M. (2006), Capillary suction time (CST): Evaluation of testing methodology and improvement of the apparatus. *4th National Conference held by The Chartered Institution of Water and Environmental Management (CIWEM) and Aqua Enviro Technology Transfer in Newcastle (12-14/09/06)*, Aqua Enviro Technology Transfer, Leeds, UK. 7 pages on CD, ISBN: 1-903958-18-0.
- Sawalha O., Scholz M. and Eke E. P. (2007), Improving the accuracy of capillary suction time testing. Kungolos A., Aravossis K., Karagiannidis A. and Samaras P. (Eds.). *Proceedings of the Society for Ecotoxicology Conference and the International Conference on Environmental Management, Engineering, Planning and Economics (24-28/06/2007)*, Skiathos Island, Greece. Grafima Publishing, Thessaloniki, Greece. ISBN: 978-960-89818-0-5, Volume 2, 1431-1436.

- Sawalha O. (2010), Effect of temperature on waste water filterability. *Graduate School of Engineering's Annual Postgraduate Research Conference (3/05/2010). Pentland Suite, John McIntyre Centre, Pollock Halls, University of Edinburgh, UK.*

REFERENCES

Available upon request
