

## Faculty Vitae

1. **NAME:** Ahmad M. Al-Haj-Ali AbuYaghi
2. **EDUCATION:**
  - Ph.D.** Chemical /Environmental Engineering, McGill University, Montreal, Canada, 1990.
  - M. Eng.** Chemical / Environmental Engineering, McGill University, Montreal, Canada, 1985.
  - B. Sc.** Chemical Engineering, Alexandria University, Alexandria, Egypt, 1979.
3. **ACADEMIC EXPERIENCE**
  - ❖ Professor, Dept. of Chemical Eng., University of Jordan, 2015-Present.
  - ❖ Associate Professor, Dept. of Environmental Eng., University of Dammam, Saudi Arabia, 2011-2013.
  - ❖ Visiting Professor, Dept. of Petroleum & Chemical Eng., Sultan Qaboos University, Oman, 2004- 2008.
  - ❖ Associate Professor, Dept. of Chemical Eng., University of Jordan, 2002–2015.
  - ❖ Assistant Professor, Dept. of Chemical Eng., University of Jordan, 1990-2002.
4. **NON-ACDEMIC EXPERIENCE**
  - Conducted Environmental Impact Assessment studies with collaboration of other experts and engineers for several projects including the Development Zones in Jordan (supported by USAID, Amman, 2010), Table Salt manufacturing in Al-Azraq Oasis Conservation Project (supported by United Nations Development Program, UNDP, 1995) and the upgrading of potable water treatment plant at Wadi Al-Arab (Water Authority of Jordan, 1994).
  - Conducted Industrial Consultation Studies , including process design, in collaboration with other faculty members and professionals, through the University Center for Consultations, Studies and Community Service including the following: Treatment of odorous gases from olive cake processing; Treatment of sour water at the petroleum refinery; Odor control at yeast manufacturing; Industrial waste management for pharmaceutical factories and Industrial waste management for several food processing plants (1997-2002).
5. **Current Membership in Professional Organizations:** Jordan Engineers' Association
6. **HONORS & AWARDS**

DAAD Award, University of Bremen, Germany (2002), McGill University Research Assistantship, Canada (1987-1989), University of Jordan Scholarship, Jordan (1981-1986), Jordan's Ministry of Education Scholarship, Jordan (1974-1979).
7. **ACADEMIC AND PROFESSIONAL SERVICE (Partial List)**
  1. Member, College Training Committee, Faculty of Engineering and Technology, University of Jordan, 2014-2016.
  2. Member, Ad-hoc Committee for Accreditation, Higher Education Accreditation Committee, September, 2014.
  3. Head, ABET Accreditation Committee, Dept. of Chemical Engineering, 2013/2014.
  4. Steering Committee for Climate Change and Sustainability Policy (CLIMASP) Project, University of Jordan, 2016.
  5. Design Team Coordinator for Science and Technology Group, Climate Change and Sustainability Policy (CLIMASP) Project, TEMPUS- University of Jordan, 2014-2106.
  6. Organizing Committee of International Chemical Engineering Conference II, October, 2010, Amman-Jordan.
  7. College Council, Faculty of Engineering & Technology, 2008/2009.

8. ABET Accreditation and Development Committee, Dept. of Chemical Eng., 2008/2009 and 2014/2015.
9. Departmental Graduate Studies Committee
10. Faculty and Departmental Ad-hoc Committees on establishing new programs in chemical, safety and environmental engineering
11. Steering Committee for Interdisciplinary M.Sc. Program in Environmental Science and Management, Faculty of Graduate Studies
12. Faculty of Engineering Scientific Research, Library and Safety committees.
13. University Committee on Chemical Waste Disposal.
14. Supervisor and co-supervisor of several M.Sc. thesis (1993-2011).
15. Head and member of the examination committees for 33 M.Sc. theses in Chemical & other Engineering as well as Environmental Science and Management since 1990.

#### **At Sultan Qaboos University (2004-2008)**

16. College Industrial Liaison and Alumni committee
17. Departmental Curriculum and ABET Accreditation committee
18. Departmental Seminar coordinator
19. Final Year Project coordinator

#### **At the University of Dammam (2011-2012)**

20. Chairman, College Library committee,
21. Chairman, College Conferences/ Seminars committee
22. College representative in Consultancy Committee on University Libraries

#### **Jordan Engineer's Association (JEA) Service (1990-2012)**

23. Member of Board, Center for Training of Engineers, JEA
24. Member of Graduation Projects committee
25. Member of Academic Certificates Review
26. Member of organizational committees of the First, Second, Third and Fourth Jordanian–International Conferences of Chemical Engineering, JEA and Jordanian Universities (1993-2002).

#### **8. SELECTED PUBLICATIONS / RESEARCH PAPERS:**

1. **Al-Haj-Ali, A. M.** and Marashdeh, L.M. **2014.** Removal of Aqueous Chromium (III) Ions Using Jordanian Natural Zeolite Tuff in Batch and Fixed Bed Modes. *Jordan Journal of Earth and Environmental Sciences* 6 (2), 45-52.
2. **Al-Haj-Ali, A. M.**, Jarrah, N.A., Mu'azu, N.D. and Rihan, R.O. **2014.** Thermodynamics and Kinetics of Inhibition of Aluminum in Hydrochloric Acid by Date Palm Leaf Extract. *Journal of Applied Science and Environmental Management* 18 (3), 543-551.
3. Mashal, A. , J. Abu-Dahrieh, A. A. Ahmed, L. Oyedele, N. Haimour, **A. Al-Haj-Ali** and D. Rooney. **2014.** Fixed-bed study of ammonia removal from aqueous solutions using natural zeolite", *World Journal of Science, Technology and Sustainable Development*, Vol. 11 (2), pp.144-158.
4. A. I. O. Zaid, **A. Al-Haj-Ali** and G T A. Allawi. **2014.** "Effect of V addition to Al and Al grain refined by Ti on chemical corrosion rates in NaOH solution with and without inhibitor at different temperatures", *IOP Conf. Series: Materials Science and Engineering* 60, pp.1-9. doi:10.1088/1757-899X/60/1/012037
5. A.I.O. Zaid, G.T.A. Allawi, **A. Al-Haj-Ali.** **2012.** "Effect of Vanadium Addition to Aluminum and Aluminum Grain Refined by Titanium on their Chemical Corrosion Rate in Acidic Solution, HCl, at Different Temperatures", *Key Engineering Materials*, Vols. 510-511, 481-486.
6. **Al-Haj-Ali, A.** **2012.** "A Theoretical Model for Liquid-Solid Chemisorption of Pollutants on the Surfaces of Non-Porous Adsorbents", *Mu'tah Journal for Research & Studies*, Vol. 27 (1), 53-74.

7. **Al-Haj-Ali, A. 2010.** "Separation of Metal Ions from Aqueous Solutions Using Precipitate Dissolved Air Flotation", *Dirasat, Engineering Sciences*, 37 (1), 54-66.
8. Marashdeh, L.M. and **Al-Haj-Ali, A. M. 2009.** "Uptake of Cd(II) Using Natural Zeolite: Batch and Continuous Fixed-Bed Studies", *The Journal of Engineering Research*, 6 (2), 1-11.
9. **Al-Haj-Ali, A.** and Al-Hunaidi, T.F. **2007.** "Sorption of Aqueous Heavy Metal Cations by Fixed Beds of Natural Zeolite", *Mu'tah Journal for Research & Studies*. 22 (2), 81-100.
10. **Al-Haj-Ali, A.** and Al-Hunaidi, T. **2004.** "Breakthrough Curves and Column Design Parameters for Sorption of Lead by Natural Zeolite", *Environmental Technology* 25 (9), 1009-1019.
11. Mashal, A.T., Haimour, N. M. and **Al-Haj-Ali AbuYaghi, A. 2002.** Removal of Ammonia from Industrial Wastewater Using Jordanian Zeolite. Proceedings, *Jordan International Chemical Engineering Conference (IV)*, Vol. I, Amman-Jordan, Sept. 22-24, 2002, pp. 161-180.
12. **Al-Haj-Ali, A.** and El-Bishtawi, R., **2001.** "Sorption of Metal Ions by Olive Cake: Equilibrium and Kinetic Study", *Mu'tah Journal for Research & Studies* 16 (3), 81-102.
13. El-Bishtawi, R. and **Al-Haj-Ali, A. 2001.** "Sorption Kinetics of Lead Ions By Zeolite Tuff", *Journal for Environmental Science & Health*, A36 (6), 1055-1072.
14. Abdel-Razeq, S. and **Al-Haj-Ali, A. 2000.** "Adsorption of Acid Dyes on Natural Wool Yarns", *Dirasat, Engineering Sciences*, 27 (1), 21-34.
15. **Al-Haj-Ali, A.** and El-Bishtawi, R. **1997.** "Removal of Lead and Nickel Ions Using Zeolite Tuff", *Journal of Chemical Technology & Biotechnology* 69, 27-34.
16. **Al-Haj-Ali AbuYaghi, A. 1996.** Management of Hazardous Wastes: A Perspective of Jordan, Proceedings, *First Conference on the Role of Engineering Towards Better Environment*, Alexandria, Egypt, pp. 645-657.
17. Naser, J. T. and **Al-Haj-Ali, A. 1995.** "Flotation as Primary Treatment for Industrial Wastewater", *Dirasat-Pure & Applied Sciences* 22(3), 670-688.
18. **Al-Haj-Ali, A.;** Cooper, D.G. and Neufeld, R.J. **1987.** "Uptake of Metal Ions by Sulphonated Pulp", *Journal of Water Pollution Control Federation* 59 (2), 109-114.

#### **9. Most Recent Professional Development Activities**

Reviewer for referred scientific journals, e.g. Jordan Journal for Earth & Environmental Sciences, National and Regional Workshops for capacity building through European Union sponsored climate change and sustainability policy project, ABET Workshop organized by the Higher Education Accreditation Commission, Organizing Symposia in *Water Management*, University sponsored research projects.