

Curriculum Vitae

1. **Name:** Mervat Fadl El-Hoz
2. **Nationality:** Lebanese, Australian
3. **Gender:** Female
4. **Address:** 8 Draper Avenue Roselands, 2196, NSW, Australia
5. **Current Address:** 10th floor, Al-Mir Building, Al-Maarad Street, Tripoli, Lebanon
6. **Present Family Status:** Single
7. **Current Academic Rank:** Associate Professor

8. Degrees/Education:

➤ Doctor of Philosophy in Environmental Engineering Title of Thesis: The Removal of Algae and Phosphorus by Tertiary Filtration	The University of Sydney, Australia	1996
➤ Master of Science in Environmental Engineering Title of Thesis: Effects of Activated Sludge Design Parameters on Aeration/Sedimentation Tanks	Middle East Technical University, Turkey	1989
➤ Bachelor of Science in Environmental Engineering	Middle East Technical University, Turkey	1988
➤ Certificate, Management Development Program Phase 1	The University of Sydney	1996
➤ Certificate, Management Development Program Phase III – “Management 2004”	The University of Sydney, Australia	1996
➤ Certificate, Introduction to Industrial Relations	The University of Sydney	1996
➤ Certificate, Quality Customer Service Skills Part B – developing team work	The University of Sydney	1996
➤ Certificate, “Key Issues of Private Sector Participation in the Water Sector for Practical Application	InWent gGmbh, Berlin, Germany	2003

9. Academic Experience:

➤ Associate Professor	University of Balamand	Sept. 08 - to date
➤ Assistant Professor	University of Balamand	Sept. 97 – Jun. 08
➤ Associate Professor (part-time)	Lebanese American University	Sept. 10 - Feb. 11
➤ Assistant Professor (part-time)	Lebanese University	Oct. 2005 - to date
➤ Assistant Professor (part-time)	Notre Dame University	Feb. 2000 - Jun.2001
➤ Instructor (part-time)	University of Sydney, Australia	1990 - 1996

10. Professional Experiences / Qualifications at the University:

➤ Organized a technical workshop on Municipal Solid Waste Treatment in collaboration with the Municipalities of Al-Koura Region	University of Balamand	Apr. 6, 1999
➤ Founder and responsible of the Water Engineering Laboratory	University of Balamand	Oct. 1999 - to 2010
➤ Founder and responsible of the Environmental Engineering Laboratory	University of Balamand	2010 - to date
➤ Designed the “Water Supply System, Sanitary System and Wastewater Treatment Plant” for the Business School at the University	University of Balamand	Nov. 1999 – Feb. 2000
➤ Worked with the Staff of the Faculty of Engineering, Water Engineering Laboratory, on the Common Environmental Programs between the two Universities	University of Poitiers, France - University of Balamand, Lebanon	Sept. 1-25, 2001
➤ Prepared the curriculum of the M.S. Environmental Risk Management Degree Program in collaboration with the University of Poitiers to be taught between the two Universities	University of Poitiers, France - University of Balamand	2001 - 2002
➤ Prepared and organized a seminar on “Air Pollution in Lebanon” at the University	University of Balamand	May, 2002
➤ Contributed on the formation of a Protocol between the University of Balamand and the municipalities of Al-Koura	University of Balamand	May – Aug.2002
➤ Worked on the establishment of a collaboration between the University of Rostock, Germany and the University of Balamand on common Environmental Program and Projects	University of Balamand	February 2003
➤ Represented the University of Balamand in the proposed collaboration with the University of Rostock, Germany, on the Research Program	University of Rostock, Germany	June 2003
➤ Founder and responsible of the Minor Degree Program in Environmental Engineering at the Master Level, in Civil Engineering Department	University of Balamand	Oct. 2003 - to date
➤ Visited the “Department of Civil and Environmental Engineering, New Jersey Institute of Technology, USA” and discussed some plans with the Chairman and Professors where the two universities were in their early stage of establishing some collaborations	New Jersey, Institute of Technology, USA	March 2004
➤ Director of the Municipal Waste Program, the Institute of Environmental Studies	University of Balamand	June 2004 - June 2005
➤ Organized a regional workshop for the MED’ACT 2 “Développement Urbain Durable”	University of Balamand	June 11, 2005

Traitement des Déchets solides, at the University of Balamand. Project financed by the European Commission and presented the project		
➤ Prepared the syllabus of the Environmental Water Chemistry, Environmental Chemistry and Microbiology, and Environmental Sampling and Analysis courses for the Department of Chemistry, Faculty of Sciences	University of Balamand	May 2007
➤ Established the Collaboration between the University of Balamand and the Water Establishment of North Lebanon	University of Balamand	September 2009
➤ Monitoring the Operation of the UOB Wastewater Treatment Plant	University of Balamand	Jan. 2009 – to date
➤ Founder and responsible of the M.S. Degree Program in Environmental Engineering. Program approved by the Ministry of Higher Education and Started Fall 2011	University of Balamand	2010 - 2011

11. National and International Environmental Consulting Experience:

➤ Senior Environmental Expert, Solid Waste / Environmental Management Program (SWEMP) funded by the World Bank, and the Lebanese Government	Council for Development and Reconstruction, (CDR) Lebanon	Sept. 1998 - Jun. 2002
➤ General Director	Environmental Engineering Consulting, Lebanon	1998 - 2004
➤ Environmental Consultant for Environmental Issues	Municipality of Tripoli	1998 - 2004
➤ Local Coordinator and Technical Leader, “Feasibility Study for Municipal Solid Waste Management for the Caza of Al-Koura”	Municipality of Amioun – EU MEDACT2 Project,	2004 - 2005
➤ Environmental Consultant for Environmental Issues	Municipality of El-Baddawi	Jun. 2006–to date
➤ Environmental Impact Assessment for Tripoli Slaughterhouse Facility	BECA Consultancy, Lebanon	2007
➤ Casting Expert involved in the Production of the Program “Stars of Sciences”	Qatar Foundation	2008
➤ Preliminary Environmental Impact Assessment for Ship Scrapping	Archideco Consulting, Lebanon	2008
➤ Environmental Assessment for Salt Production Factory	Municipality of Kalamoun	2008
➤ Environmental Impact Assessment for Olive Waste Composting Facility Project	UNDP	2010
➤ Assessment and Rehabilitation of the Bkarzala Wastewater Treatment Plant, Lebanon	UNDP	2010
➤ Environmental Expert, Safety Transport & Logistics Solution Company Limited (STLS),	STLS, Ghana	2009- to Date

on collection and disposal of hazardous and none hazardous waste		
➤ Environmental Assessment of Cyanide Spill in Djibo, BURKINA	Samsung C & T Corporation	September 2011
➤ Feasibility Study for a Compost Plant for the Urban Community Al Fayhaa	Urban Commune Al-Fayhaa – EU, GODEM Project	2011 – 2012

12. Teaching Experience to Date:

9.1 Undergraduate Courses

- CIVE 212 Introduction to Environmental Engineering, University of Balamand
- CIVE 311 Sanitary Engineering, University of Balamand
- CIVE 201 Statics, University of Balamand
- ENV 200 Introduction to Environment, University of Balamand
- CIE 424 Water Distribution and Treatment, Lebanese American University
- CEN 362 Environmental Engineering, Notre Dame University
- CEN 460 Water and Wastewater Network, Notre Dame University
- CEN 490 Civil Engineering Project I, Notre Dame University
- ----- Introduction to Environmental Policy, Lebanese University
- ----- Solid Waste Treatment, Lebanese University
- ----- Wastewater Treatment, Lebanese University
- ----- Air Pollution, Lebanese University

9.2 Graduate Courses

- ENVE 402 Environmental Chemistry, University of Balamand
- ENVE 405 Physical and Chemical Processes of Water and Wastewater Treatments, University of Balamand
- ENVE 408 Environmental Sampling and Monitoring, University of Balamand
- ENVSC 311 Principles of Environmental Remediation and Restoration, University of Balamand
- CIVE520 Principles of Environmental Engineering, University of Balamand
- CIVE521 Wastewater Engineering, University of Balamand
- CIVE522 Water Resources and Quality Control, University of Balamand
- CIVE523 Air Quality and Pollution Control, University of Balamand
- CIVE524 Solid Waste Disposal, University of Balamand
- CIVE525 Sanitary Landfill, University of Balamand
- CIVE527 Environmental Impact Assessment, University of Balamand
- GENG 590 Graduate Project, University of Balamand
- GENG 599 Graduate Thesis, University of Balamand
- CEN 490 Civil Engineering Project I, Notre Dame University
- CEN 590 Civil Engineering Project II, Notre Dame University
- CEN 591 Civil Engineering Project III, Notre Dame University
- WRSE 505 Hydrochemistry and Microbiology, EduDMG (Education Development and Management Group, Inc.).
- WRSE 506 Laboratory Analysis for Water/Wastewater, EduDMG.
- WRSE 510 Math for water/wastewater Applications, EduDMG.
- WRSE 522 Water and Wastewater Engineering, EduDMG
- EENG 486 Electrical and Mechanical Instrumentation, EduDMG.

13. Publications and Presentations:

10.1 Publications

10.1.1 Refereed Journal Articles

1. El-Hoz, M., Ghaleb, S., and Yammine, P. (2012). Analysis Of Benzene, Toluene And Xylene In Groundwater Of Tripoli-Lebanon Using GC/MS (Sent to the International Journal of Environment and Pollution).
2. El-Hoz, M. (2008). Application of Geographical Information System for Sanitary Landfill Site Selection. The Journal of Solid Waste Technology and Management, Vol.34, No 2, pp 113-121.
3. El-Hoz, M. (2006). Matrix-Filter System for Algae and Phosphorus Removal. Sewage Sludge Technology & Management, A Supplement to The Journal of Technology, pp.77 – 89.
4. El-Hoz, M. (2006). Technical Evaluation of Waste Composting Plant. The Journal of Solid Waste Technology and Management, Vol.32, No 1, pp 10-18.
5. El-Hoz, M. (1996). Removal of Phosphorus from Secondary Effluent by a Matrix Filter. The International Journal on the Science and Technology of Desalting and Water Purification, “Desalination”, Elsevier, 247-253.

10.1.2 Peer-Reviewed Conference Papers

1. El-Hoz, M. Mohsen, A., and A. Iaaly (2012). Assessing Groundwater Quality in Coastal Area Using GIS Technique. The Six International Conference on Water Resources in Mediterranean Basin (WATMED6), Tunisia, 10-12 October. (Accepted)
2. El-Hoz, M. and N. Gerges (2012). Simulation Study to Improve Wastewater Treatment Plant Operation and Upgrading. Paper submitted to the 2nd International Conference on Environmental Pollution and Remediation, which will be held in Montreal, Quebec, Canada, 28-30 August 2012. (Accepted).
3. El-Hoz, M. and Iaaly A. (2012) (**1st Place Paper Award**). Site Evaluation for Olive Mills Waste Composting Facility. The 6th International Conference on Environmental Science and Technology (ICEST), June 25-29, Texas, USA.
4. El-Hoz, M. (2012). Evaluation of Composting Processing Technologies for the Treatment of Urban Municipal Solid Waste. The Twenty-Seventh International Conference, On Solid Waste Technology and Management, Philadelphia, Pa U.S.A., March 11 – 14.
5. El-Hoz, M. (2011). Sustainable Environmental Management for Olive Mill Waste in Rural Areas. The Twenty-Sixth International Conference, On Solid Waste Technology and Management, Philadelphia, Pa U.S.A., March 27 – 30.
6. El-Hoz, M. (2010). Factors Influencing Household Waste Management Behavior. The First International Conference on “Environmental Management and Technologies” ICEMT, Jordan, 1-3 November, pp.61-74.
7. El-Hoz, M., and M. Saba (2010). “Analysis of Groundwater Quality in Kobayet Region, Lebanon” 5th International Conference on Water Resources in Mediterranean Basin (WATMED5), Lille–France, 26-28 May.
8. El-Hoz, M. (2010). Attitudes and Behavior of Middle-Income Housewives towards Minimization, Sorting and Recycling of Municipal Solid Waste. The Twenty-Fifth International Conference, On Solid Waste Technology and Management, Philadelphia, Pa U.S.A., March 14 – 17, pp. 256-267.
9. El-Hoz, M. (2009). Women Participation in Municipal Solid Waste Sorting and Recycling. The Twenty-Fourth International Conference, On Solid Waste Technology and Management, Philadelphia, Pa U.S.A., March 15 - 18, pp. 482-492.

10. El-Hoz, M. (2008). Environmental Management of Meat Processing Industry. Kuwait Waste Management Conference & Exhibition, Kuwait, April 7- 9.
11. El-Hoz, M. (2008). Slaughterhouse Waste Management Study in Urban Area. The Twenty-Third International Conference, On Solid Waste Technology and Management, which will be held in Philadelphia, Pa U.S.A., March 30 - April 2.
12. El-Hoz, M. (2008). Water Resources Status in Tripoli, Lebanon: Problems and Solutions. Fourth International Conference on Water Resources in Mediterranean basin, Algeria, March 22-24.
13. El-Hoz, M. (2007). Municipal Solid Waste Management in Semi Urban Areas. The Twenty-Second International Conference, On Solid Waste Technology and Management, Philadelphia, Pa U.S.A. 18 – 22 March.
14. El-Hoz, M. (2006). Efficient Wastewater Management in Rural Areas. Euro-Arab 2006 Conference and Exhibition on Environment, State of Kuwait, 27-29 November.
15. El-Hoz, M. (2006). Role of Women in Environmental Higher Education. Euro-Arab 2006 Conference and Exhibition on Environment, State of Kuwait, 27-29 November.
16. El-Hoz, M. (2006). Development and Assessment of Sustainable Water Resource Management. Third International Conference on Water Resources in Mediterranean basin, Tripoli, Lebanon, 1-3 November.
17. Daou C., Parinet B., El Hoz M., and Legube B. (2006). Evaluation de la Qualité des Eaux de Surface au Liban du Point de Vue Physico-Chimique et Microbiologique. Cas de deux Rivières: Kadisha-Abou Ali et El-Jaouz.
18. El-Hoz, M. (2006). Use of GIS Technique as Decision Support Tool for Sanitary Landfill Siting. The Twenty-First International Conference, On Solid Waste Technology and Management, Philadelphia, Pa U.S.A. 26 – 29 March.
19. El-Hoz, M. (2006). Analysis of Hospital Waste Situation in Tripoli City. The Regional Conference on Medical Waste, Amman, Jordan, 21 – 23 March.
20. El-Hoz, M. (2005). Sanitary Landfill Extension. The Tenth International Waste Management and Landfill Symposium, which was held in Sardinia, Italy 3 - 7 October.
21. El-Hoz, M. (2005). Marketing and Commercializing of Compost. The Twentieth International Conference, On Solid Waste Technology and Management, Philadelphia, Pa U.S.A. 24 – 27 March.
22. El-Hoz, M. (2005). Evaluation of Transportation in Urban Area. International Exhibition and Conference on Sustainable Transportation in Developing Countries. 29 Jan.-2 Feb. Abu Dhabi United Arab Emirates.
23. El-Hoz, M. (2004). The Performance of Direct Filtration System as an advanced Wastewater Treatment. The "Sustainable Development - Challenges Facing the Environment" Conference 5-7 June, 2004 Cairo, Egypt.
24. El-Hoz, M. (2004). Evaluation of Municipal Solid Waste Composting in Urban Areas. The Nineteenth International Conference, On Solid Waste Technology and Management, Philadelphia, Pa U.S.A. 24 – 27 March.
25. El-Hoz, M. (2003). Matrix-Filter System for Algae and Phosphorous Removal. “The First Regional Conference on sewage sludge technology and management”, 15 – 17 December, Kuwait.
26. El-Hoz, M. (2003). Physicochemical Approach to Advanced Wastewater Filtration. “The First Regional Conference on Appropriate Technologies for Municipal Wastewater Treatment and Reuse”, December 2-4, Lattakia, Syria.
27. El-Hoz, M. (2003). Assessment of Municipal Solid Waste Compost on Crops. The “Ninth International Waste Management and Landfill Symposium, Sardinia, Italy, 6-10 October 2003”.

28. El-Hoz, M. (2003). Experiences of Municipal Solid Waste Composting in Greater Beirut. Summer School Program on "Environmental protection as connection between cultures", University of Rostock, Germany, 31/August/-14/September.
29. El-Hoz, M., and Najjar, M. (2003). Environmental Impact Assessment Study for the Development of a Sanitary Landfill in the South. The Eighteenth International Conference, On Solid Waste Technology and Management, Philadelphia, Pa U.S.A. 23 – 26 March.
30. El-Hoz, M., and Najjar, M. (2003). Environmental Evaluation of the Sanitary Landfill in Greater Beirut. The Eighteenth International Conference, On Solid Waste Technology and Management, Philadelphia, Pa U.S.A. - March 23 – 26.
31. El-Hoz, M. (2003). Environmental Impact Assessment of Air Pollution in Tripoli. The Air Pollution & Health Consequences, Facts Realities & Perspectives in Lebanon. 4 - 6 February.
32. El-Hoz, M. (2002). Municipal Solid Waste Management in Tripoli. Euro – Arab Environmental Protection Conference, University of Rostock, Germany, 10 – 12 October, pp 93 - 107.
33. El-Hoz, M. (1999). Solid Waste Management in Lebanon, Case Study of Zahle. The Inter-regional Workshop on Technologies for Sustainable Waste Management, Alexandria, Egypt, 13 – 15 July.
34. El-Hoz, M. (1998). Solid Waste Management and Legislation in Lebanon. Unesco Chair for Environmental Protection (Pollution by Solid Waste). Homs, Syria, 25th October.
35. El-Hoz, M. (1998). Algae and Phosphorus Removal by Skeleton Fill Filter. Colloque Franco-Libanais sur l'eau et la Santé. 15-17 October.
36. Apperley, L.W., & El-Hoz, M.(1995). Removal Mechanisms of a Matrix Filter. International Congress on Modeling and Simulation, MODSIM 95, University of New Castle, New South Wales, Vol. 3, pp. 82-87, 27-30 November.
37. El-Hoz, M., & Apperley, L.W. (1995). Matrix Filtration in Tertiary Treatment. The Sixth Asian Congress of Fluid Mechanics, Singapore, Vol. 2, pp. 849-852, 22-26 May.
38. El-Hoz, M., & Apperley, L.W. (1995). Evaluation of Filter Modeling Experiments. The Sixth Asian Congress of Fluid Mechanics, Singapore, Vol. 2, pp. 853 -856, 22-26 May.
39. El-Hoz, M., & Apperley, L.W. (1991). Effects of Activated Sludge Parameters on Aeration/Sedimentation Tanks. The International Symposium on Environmental Hydraulics, Hong Kong, Vol. 2, pp. 1553-1557, 16-18 December.

10.1.3 Books/ Book Chapters

- In Oct. 10, 2007, signed a Declaration of Consent to "**InWent - Capacity Building International, EMWater Project, Germany**" as the following presentations delivered at the Workshops on "Efficient Management of Wastewater, its Treatment and Reuse in the Mediterranean Countries" were selected to be published and disseminated by InWent as print version as well as on digital media for further awareness and training issues for non-commercial purposes. Title of the Presentations:
 - Efficient Management of Wastewater"
 - Water Quality Parameters For Wastewater Treatment Plant
 - Wastewater Management in Rural and Suburban Areas

10.1.4 Technical Reports

- El-Hoz, M., (2002). "Crisis of Al-Tabbaneh", for the Centre of Development and Municipality Studies which had submitted to the Minister Council Presidency on Sept. 8.

10.2 Presentations

10.2.1 Invited Presentations at Conferences/Symposia

1. El-Hoz, M. and Gerges N. (2011). Performance Evaluation of the University of Balamand Advanced Wastewater Treatment Plant. International Conference on Water and Climate Change in the MENA-Region, April 28-29, Berlin, Germany.
2. El-Hoz, M., (2006). Gender Issues and Environmental Protection. Expert Meeting to strengthen the mechanisms for the advancement of women in social gender in policies and programs, ESCWA – UNIFEM, Amman, Jordan September 5-6.
3. El-Hoz, M., (2006). Role of Women in Environmental Higher Education. Special Session on "The Role of Women in Environment Improvements. Euro-Arab 2006 Conference and Exhibition on Environment
4. El-Hoz, M., (2005). Wastewater Treatment and Reuse in Rural and Suburban Areas. University of Mississippi.
5. El-Hoz, M., (2005). How to Benefit from Available Water Resources The 4th International Water Conference in the Arab Countries, Lebanon (awarded a certificate at the end of this conference)
6. El-Hoz, M., (2005). Current Solid Waste Management in the Municipal Union of Al-Fayhaa, Pilot Project for Coastal Litter Management, sponsored by Ministry of Environment, MAP, RAMOGE, and UNADEP, February 8.
7. El-Hoz, M., (2000). Integrated Solid Waste Management for Tannourine, Conference on "Dialogue and Local Partnership for Environmental Management in Tannourine" organized by the International Development Centre held in the Municipality of Tannourine, Lebanon.
8. El-Hoz, M., (1999). Solid Waste Management in Lebanon. Inter-regional Workshop on Technologies for Sustainable Waste Management", organized by UNDP in Alexandria, Egypt, July 13 – 15.

10.2.2 National Seminars and Workshops

1. El-Hoz, M., (2012). Air Pollution in Tripoli. Seminar organized by the Agence Universitaire de la Francophonie, LAsER (Lebanese Association for Scientific Research) and the Municipality of Tripoli. Title of Seminar: L'Environnement a Tripoli, Ça nous concerne tous, March 20.
2. El-Hoz, M., (2008). Hospital Waste Management in Tripoli. Seminar organized by the Institute of Engineers, the Institute of Medicine, and the Social Azm and Saadeh Association, Lebanon.
3. El-Hoz, M., (2007). Current Situation of Environment and the Proposed Environmental Legislations. Seminar organized by the Social Azm and Saadeh Association, Lebanon.
4. El-Hoz, M., (2006). Environment: Problems and Solutions. Seminar organized by the Ministry of Water and Energy and the Municipality of Gazir, Mount Lebanon, April 19.
5. El-Hoz, M., (2006). Awareness on Cleaning and Behavior. Seminar organized by the Orthodox Scout, Tripoli, Lebanon, April 15.
6. El-Hoz, M., (2006). Nature of Solid and Liquid Wastes in the Koura Region and Methods Followed for its Treatment. Seminar organized by Notre Dame University and Lebanese Social Club, Jan. 19.
7. El-Hoz, M., (2001). Municipalities and their Role In Solid Waste Treatment In Zahle Caza, July 7.
8. El-Hoz, M., (2001). Environmental Public Awareness. Seminar organized by ROTARACT and Environmental Protection Committee, Tripoli, April 6.

9. El-Hoz, M., (2000). Solid Waste Management in Lebanon. Workshop organized by the UNDP on the “Status of Solid Waste Management in Lebanon” held in the United Nations House, Beirut, March.
10. El-Hoz, M., (2000). The Rehabilitation of the Old Dump in Tripoli. Seminar organized and held in Environmental Protection Committee (NGO), Tripoli. February.
11. El-Hoz, M., (2000). *Wastewater in North Lebanon and its Risks on Public Health and the Environment*. Workshop on “The Water of Tripoli: Reality & Horizons” held at the “Ordre des Ingenieurs et Architectes, Lebanon”, June.
12. El-Hoz, M., (1999). Solid Waste Treatment for the City of Tripoli” Seminar organized by the Environmental Protection Committee (NGO), Tripoli, April.
13. El-Hoz, M., (1997). Tripoli Sewerage”. Seminar organized by the Institute of Engineers, Tripoli”, July.

14. Participation as Expert in International Conferences and Workshops

1. Participated in the 4th EMWater Project Regional Training on “Efficient Management of wastewater treatment and Reuse”, Bologna, Italy, June 10-22, 2007.
2. Participated in the “First MEDA Water Partners Conference” which was held in Jordan, organized by MEDA Water, Regional Monitoring and Support Unit (RMSU) – Institut Méditerranéen de l’Eau (IME), April 15–16, 2007.
3. Participated in the “Final Evaluation Workshop on Sustainable Water and Waste Water Management Project (SWAMP)” held in Cairo, Egypt which was sponsored by InWent, Capacity Building International, Germany, Nov. 13-20, 2005.
4. Presented the project “Feasibility Study for a Municipal Solid Waste Management for the Caza of Koura” and its results at the Regional Workshop of the MED’ACT 2 “Développement Urbain Durable” Project financed by the European Commission, June 11, 2005.
5. Participated in the 2nd Workshop on the “Elaboration of a Plan and Implementation of Actions for the Promotion of Socially Equal Tourism” organized by the Centre for European Constitutional Law (CECL), Athens, Greece, Sept. 20-24, 2004.
6. Participated in the Online Course on “Key Issues of Private Sector Participation in the Water Sector for Practical Application, 2003”, Organized by InWent gGmbH, Berlin, Germany, Dec.15 – Oct.31, 2003.
7. Participated and Prepared a Lebanese Private Sector Participation in the Water Sector Case Study in the Workshop of the Above Course Which Was Held in Amman, Jordan, Nov. 17 – 21, 2003.
8. Participated and presented a paper in the Summer School Program on “Environmental Protection as Connection between Cultures”, Rostock, Germany and awarded a certificate at the end of this program, Aug.31– Sept.14, 2003.
9. Participated in the Euro – Arab Summer School, on “Environmental Protection”, Rostock, Germany and awarded a certificate at the end of this Summer School program, October 1 -9, 2002.
10. Participated in the “National Council for Scientific Research” Conference held at the Institute of Engineers, Beirut, (Feb. 24, 2003)\
11. Participated in the “Solid Waste Management in Lebanon” workshop held at the Institution of Engineers, Beirut, May 8-10, 2003

15. Grants and Funded Projects:

1. University Awarded Research grant for the Project Proposal: “Assessment of the drinking water quality in the City of Tripoli”. Project value: 13,000,000 LBP, Feb. 2009 – Jan. 2011
2. Prepared the proposal of the “Feasibility Study for a Municipal Solid Waste Management for the Caza of Koura” project on behalf of the Municipal Federation of Al-Koura to European Commission (ECOMED), Project Title: MED’ACT2, “Développement Urbain Durable”, value 125,500 Euro and was the Local Coordinator and Technical Leader on its execution. June 2004 – Sept. 2005
3. Prepared the proposal of the “Municipal Solid Waste Sorting Plant” project on behalf of the Urban Commune Al-Fayhaa” to European Commission OMSAR Program through the Office of the Minister of State for Administrative Reform, Project value: 1,100,000 Euro.
4. Contributed in the preparation of the proposal of the “GUIFORMED: GUIDelines for the FORMation of Managers and Operators of Mediterranean Coastal Wastewater Treatment Systems ” project on behalf of the Municipality of El-Baddawi”. The project has been accepted by the European Commission MED PACT Program. Project value: 775,108 Euro, for 3 years execution period. Sept. 06– Dec. 09
5. Prepared and won the Project: "Rapprochement entre les usagers et le service public de l'eau pour une meilleure gestion de la ressource - Tripoli (Liban)" sous la "Convention de Coopération décentralisée Région Rhône-Alpes / Liban Nord", avec l’Etablissement de l’Eau, Liban Nord. In addition, Trainer for all lectures (7 weeks) with field trips to the water treatment plant in Tripoli, and Rachiine and Abou Halka Springs. Jan. 08 – Mar. 30, 2008.

16. Ongoing Research:

1. Assessment of the drinking water quality in the City of Tripoli, Convention with the “Water Establishment of North Lebanon”

17. Scientific/Professional Society Memberships/Professional Services:

16.1. International Scientific and Professional Memberships and Services

1. Arbitral tribunal, Arab Administrative Development Organization - League of Arab States- for “Saudi Arabia Award for Environmental Management”, Cairo, May 25 - 30, 2012.
2. Environment Regional Committee, Arab Engineer Federation, Sept.15, 2005 – 2008
3. Editorial Review Committee, “The Journal of Solid Waste Technology and Management”, U.S.A April 2007- to date
4. Arab Integrated Water Resources Management Network, (AWARENET), Nov. 2007 – to date
5. Scientific Committee, Philadelphia, U.S.A. The International Conference on "Solid Waste Technology and Management", U.S.A. which is held yearly, 2005 – to date
6. Scientific Committee, the 6th International Conference on Water Resources in Mediterranean Basin (WATMED 6) Which will be held in Sousse – Tunisia, 2012.
7. Scientific Committee, the 5th International Conference on Water Resources in Mediterranean Basin (WATMED 5) Which was held in Lille – France, 2010
8. Scientific Committee, the 4th International Conference on Water Resources in Mediterranean Basin (WATMED 4) Which was held in Algeria, 2008.

9. Scientific Committee, the 3rd International Conference on Water Resources (WATMED3) which is organized by the Lebanese University and the Lebanese Committee for Environment and Sustainable Development, Lebanon, 2006
10. The Institution of Engineers, Australia, 1990-1998
11. Institute of Engineers, Tripoli, Lebanon, 1995 – to date
12. Water Environmental Federation, USA, 1994 – 1999
13. Australian Water and Wastewater Association, 1992 – 1998

16.2. National Scientific Committees

1. Ministry of Energy and water: Coordinator, the Field emergency Board for Energy and Water Resources, Nov. 05 – June 06
2. Ministry of Education: President of the Specialized Technical Committee at the General Directorate for Technical Education that prepared the Environmental Technology Curriculum (TS), Apr. – Sept. 03
3. Minister Council Presidency: Member of the preparatory committee for the “Tripoli development Conference” this was held at the Minister Council Presidency on Sept. 8, 2002, May – Sept. 2002
4. Institute of Engineers, Tripoli: Member of the Scientific Committee, Mar. 2000 – Feb. 2010, and Feb. 2011 to date

16.3. National and International Environmental Memberships

- President, “Environment Euro Arab Organization”, Middle East Region, Mar. 2009 – to date.
- Member of the Senate, “Environment Euro Arab Organization”, Mar. 2011 – to date.
- President, the Environmental Committee at the Institution of Engineering, Tripoli, May 2003 – 2006
- Honorable member of the Dutch Alumni Club, Jordan, Dec. 14, 2006 – to date
- Member of AWARENET, Nov. 2007 – to date
- Founder and Vice president, the Environmental Committee at the Institution of Engineering, Tripoli, Feb. 2004 – May 2007
- Founder and Director of the Environmental Division, "Lebanese Consulting Center for Development", Nov. 2006 – to date
- Member of the Environment Regional Committee, Arab Engineer Federation, Sept.15, 2005 – 2008.
- Vice President, “The Lebanese Committee on Environment and Sustainable Development”, Tripoli (NGO), 2004 – to date.
- Secretary, “the Environmental Committee at the Institution of Engineers”, Tripoli, Lebanon, 2001 – 2005.
- Member of “le Cenacle Libanais pour la Protection de l’Environnement”, Jounieh, (NGO), 2000 – 2004.
- Public Relation Officer, “Environmental Protection Committee”, Tripoli (NGO), 1998 – 2003.

18. Professional Society Memberships

- Municipality of Tripoli: Member of the Municipal Council of Tripoli, President of the Environment and Public Parks, June 2004 – May 2010
- Lebanese Australian Collaboration Association: Vice President, 2002 – to date

- Australian Aid for Lebanon: Coordinator (in Lebanon), sponsored by The Australian International Agency Development and UNICEF Australia 1997 – 2005
- Organizing Committee of the Arabic Day Carnival sponsored by The Australian Arabic Welfare Council, which attracts more than 20,000 persons, 1995.

19. Environmental Expert Trainer

- *UOB and LAU*: One day Trainer at the Workshop “Efficient Management of Wastewater, its Treatment and Reuse in the Mediterranean Countries” Topic: “Water Quality Parameters for Wastewater Treatment Plant”, June 14 and 21, 2006
- *UOB and LAU*: Two days Trainer at the Workshop “Efficient Management of Wastewater, its Treatment and Reuse in the Mediterranean Countries”, Module 2. Topics: “Calculations Involved in Sizing a Wastewater Treatment Plant (WWT)” and “Software Application for Designing and Sizing a Wastewater Treatment Plant”, Sept. 28-29 and Oct. 22-23, 2006
- *Al al-Bayt University, Jordan*: Trainer (two days) in the regional training financed by the German Ministry for Economic Co-operation and Development (BMZ) and entrusted to InWent by EU-MEDA. Lectures on: Operation and Maintenance of Small Scale Wastewater Treatment plant (sswwtp), and Technological Aspects of sswwtp, Sept. 26-27, 2004
- *UOB and LAU*: One day Trainer at the Workshop “Efficient Management of Wastewater, its Treatment and Reuse in the Mediterranean Countries”. Lectures topics: “Wastewater Management in Rural and Suburban Areas”. Project financed by the German Ministry for Economic Co-operation and Development (BMZ) and entrusted to InWent by EU-MEDA, July 27-28, 2004
- *UOB and LAU*: One day Trainer at the Workshop “Efficient Management of Wastewater, its Treatment and Reuse in the Mediterranean Countries”. Lectures topics: “*Awareness Campaign*”. Project financed by the German Ministry for Economic Co-operation and Development (BMZ) and entrusted to InWent by EU-MEDA, July 5-6, 2004
- *Ministry of Environment*: One day Trainer at the Environmental Development Workshop organized by METAP and Ministry of Environment: Lectures topics: Problems of Solid Waste and Their Methods of Treatment for Lebanon”, and “Composting Processes”, April 2001.

20. Honors and Awards:

1. November 28, 2006: One the five selected ladies who were awarded by the Euro-Arab Committee at the Special Session on "The Role of Women in Environment Improvements" that was held during the "Euro-Arab 2006 Conference and Exhibition on Environment", State of Kuwait, for their performance and contributions in environmental activities,.
2. June 2003: Prepared and awarded an educational tour to Germany related to environmental and cultural issues with a group of 10 students sponsored by the University of Rostock and D.A.A.D., Germany.
3. June 1989: Middle East Technical University, Department of Environmental Engineering, Ankara, Turkey *Master of Science (Honor, equivalent to 1st class)*,

21. Community-Linked, Co-curricular and extra-Curricular Activities:

18.1. University-Community Activities

1. Representing the University of Balamand and the Municipal Federation of Al-Koura in the “Cooperation Decentralisée, Rhône-Alpes / Liban Nord” Committee, June 2005 – June 2008.
2. Represented the Municipality of Tripoli in the First MEDA Water Partners Conference which was held in Jordan, Apr. 14 - 16, 2007.
3. Represented the Municipality of Tripoli in the “Cooperation Decentralisée, Rhône-Alpes, France / Liban Nord” Committee, Jun. 2005 – May 2010.
4. Coordinator between the University of Balamand and Water Establishment of North Lebanon, 2009 – to date.
5. Represented the Municipality of Tripoli in the United Nation LIFE Project Committee, Beirut, Sept. 2004 – Jun. 2006.
6. Represented the Municipality of Amioun in the Med'Act 2 Workshop held in Rome, Italy. Nov. 29 – 30, 2004.
7. Represented the Municipality of Amioun in the Euromed Seminar on Sustainable Development and presented the Solid Waste Management in Al-Koura Region Case Study held in Rome, Italy, Nov. 30 – Dec. 1, 2004.
8. Represented the University and the Municipalities of Koura in the Meeting Of the Eurocities Euromed Group, held in Brussels, Feb. 16-17, 2004.
9. Represented the University and the Municipalities of Koura in the “ACRR International Days. Euro-Mediterranean Partnership: How to Cooperate between Cities in Favor of Sustainable Development” held in Brussels, Feb. 18-19, 2004.
10. Assisted the municipalities of Al-Koura in addressing their environmental problems especially those related to solid waste, wastewater and land reclamation, and represented them and the University of Balamand in the Seminar prepared for the European Commission Representatives, Aug. 2002.

18.2. Community Activities

- May – Sept. 2002. **Minister Council Presidency:** Member of the Preparatory Committee for the “Tripoli Development Conference” this was held at the Minister Council Presidency on Sept. 8, 2002.

22. Other Duties (Special Tasks): (e.g. Theses/Field Projects Advising)

21.1. PhD Thesis Advisor:

1. Oct 2011 – June 2014: Hydrogeological Study of Coastal Groundwater in North Lebanon. Marianne Saba. University of Balamand – University of Lille, France
2. Feb. 2003 – Jun. 2006: Modeling by PCA (Principal Component Analysis) the Water Quality of Lebanese Surface Water: Case of the Two Rivers Kadisha-Abou Ali and El Jaouz. Claude Daw, University of Balamand – University of Poitiers, France.

21.2. Master Thesis Advisor:

1. Feb. 2012 – Jan. 2013: Design of a Tertiary Wastewater Treatment Plant for Medium Size Semi-Urban Area in the Koura Region. Sobhi Ghaled, M.Sc. student, University of Balamand
2. October 2010 - June 2011: Hydrocarbon (BTEX) Assessment in Groundwater of Tripoli, Sobhi Ghaled, M.Sc. student, University of Balamand,
3. October 2009 - June 2011: Assessing the water quality of the Estwan and Arka Rivers in Akkar. Souha Tohme, M.Sc. student, University of Balamand,
4. Feb. 2009 – Feb. 2010: Evaluation and Modeling of Small and Medium Scale WWTP using GPS-X, Frida Gehshan, M.Sc. student, University of Balamand,

5. Oct. 2007- Jun. 2008: Water Quality Analysis in Kobayet, kelhat and Tripoli Regions. Marianne Saba, M.Sc. student, University of Balamand,
6. Oct. 2005 – Jun. 2006: Tap Water Quality of the University of Balamand, Dalia Iskandar, M.Sc. student, University of Balamand,

21.3. Master Graduation Projects Advisor:

1. Oct.2011 – June 2012: Statistical analysis of the water quality of the Oustwan River. Yassine Yassine and Bilal Al-Masri, M.Sc. student, University of Balamand
2. Oct.2011 – June 2012: GIS-based evaluation of groundwater vulnerability in coastal area. AbdulGheni Dhaiby and Ahmad El-Mohammad, M.Sc. student, University of Balamand
3. Oct. 2007- Aug. 2008: Coastal Waste Water Treatment Plants in Lebanon. Hussein Seif and George Semaan, M.Sc. student, University of Balamand,
4. Oct. 2007- Aug. 2008: Municipal Solid Waste Management in Dennieh. Wissam Borghol and Najibeh Hassoun, M.Sc. student, University of Balamand,
5. Oct. 2006 – Sept. 2007: Water Management In Tripoli. Abdulmuheiman Karamreddine and Fadel Hijazi, M.Sc. student, University of Balamand,
6. Mar. 2006 – Feb. 2007: Air Pollution Control In Chekka Region, Afifa Semaan, M.Sc. student, University of Balamand,
7. Oct. 2006 – Jun. 2007: Water Analysis Of Damour River, Khaled Kojok And Sami Saab, M.Sc. student, University of Balamand,
8. Oct. 2005 – Jun. 2006: Environmental Impact Assessment And Design Of Sanitary Landfill In Al-Koura, Mohamad Zawit, Mazen Khaled, M.Sc. student, University of Balamand,
9. Oct. 2003 – Jun. 2004: Municipal Solid Waste Management In Al Koura Caza, Fahed Sassine and Ali Al Rabih, Oct. 2005 – Jun. 2006: Tap Water Quality of the University of Balamand, Dalia Iskandar, M.Sc. student, University of Balamand,
10. Oct. 2003 – Jun. 2004: Design of a Sanitary Landfill with the Implication of “Visual Help” Software and Creation of New Software for Structural Building Analysis, Hassan Shaar and Wissam Tout, Oct. 2005 – Jun. 2006: Tap Water Quality of the University of Balamand, Dalia Iskandar, M.Sc. student, University of Balamand,
11. Oct. 2002 – Jun. 2004: Water Quality in Tripoli. Nicolas Khawand, M.Sc. student, University of Balamand,
12. Oct. 2005 – Jun. 2006: Tap Water Quality of the University of Balamand, Dalia Iskandar, M.Sc. student, University of Balamand,
13. Mar. 2002 – Jan. 2003: Chafat Wastewater Treatment Plant, Ibrahim Al-Rassy and Ziad Chahal, M.Sc. student, University of Balamand
14. Oct. 2005 – Jun. 2006: Tap Water Quality of the University of Balamand, Dalia Iskandar, M.Sc. student, University of Balamand,
15. Oct. 2002 – Jun. 2003: Quantities and Qualities of Solid Waste in the Caza of Al-Koura, Hanna Nassif,
16. Oct. 2002 – Jun. 2003: Koura Wastewater Treatment Plant, Wastewater Engineering Design, Gabriel Saad, M.Sc. student, University of Balamand,
17. Oct. 1998 – Jun. 1999. Wastewater Treatment Plant, Dima Homs, Houssam Khodr,

21.4. Graduation Projects Moderator:

1. Oct. 2008 - July 2009: Industrial Waste Management In North Lebanon, Graduation Project, Lebanese University, Rasha Osmani And Rima El-Chaar

2. Oct. 2007 - July 2008: Waste Water Treatment Plant In Tripoli, Graduation Project, Lebanese University, Maryam Sadek, Reine Moussa, Rana Arfoul.

23. Committee Memberships:

22.1. Faculty:

- Library committee representing the Faculty of Engineering, Nov. 2003 – June 2005
- Research council, Nov. 2007 – Nov. 2009

22.2. University:

- Recycling Program, (Feb. 2008 – to date)
- Technical Committee for Air Quality Monitoring Program, (Mar. 2007 - to date)
- Advisor, Environmental Club, (Nov. 2005 - to date)
- Senate representing the Civil Engineering Department, (Apr. 2004 – Dec. 2007)
- Environment Task Force, University Master Plan Project (2002-2004)
- Center of Engineering and Environmental Studies” Committee which prepared the By-Laws of the Center, (April 2003 – to date)
- Public Relations Committee representing the Civil Engineering Department, (Dec. 2002 – 2003)

24. Language Skills: (1 – excellent; 5 – basic)

Language	Reading	Speaking	Writing
➤ English	1	1	1
➤ French	1	1	1
➤ Turkish	2	2	2
➤ Arabic (mother tongue)	1	1	1