

# CURRICULUM VITAE

**Name** SHACKER HELMI EL-SAYED HELMI MAHMOUD

**Family Name** HELMI

**Date of Birth** 17/11/1945

**Place of Birth** Damanhour, Egypt

**Nationality** Egyptian

**Religion** Moslem

**Sex** Male

**Marital Status** Married

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**Present Post** ♦ Professor of Environmental Studies, Department of Environmental Studies, Institute of Graduate Studies & Research, University of Alexandria.

**Previous Post** Vice Dean For Environmental Affairs & Community Development, Institute of Graduate Studies & Research, University of Alexandria.

**Professional Experience**

*July - Sept.1986* Consultant, USAID, "The Biotechnology Component Project in Egypt" Cairo, Egypt.

*1989 - 2002* Coordinator, Egypt - UK Links Project "Rehabilitation of Lake Maryut", Alexandria, Egypt.

*1992-1993* Consultant, International Development Research Center (IDRC), Canada, Project "Environmental Awareness Among Alexandrians".

*Jul.-Oct.1993* Consultant, International Labour Organization (ILO) Project "Training for The Development of Settler Cooperatives in New Lands, Egypt".

*1992-1995* Coordinator, European Commission (Med-Campus), Project "Mediterranean Universities Linkage Programme of Environmental Protection".

- 1994-1995* Principal Investigator, Academy of Scientific Research – Egypt. STC Project “In-plant Modification & Improvement of Handling Processes to Reduce Wastes at Al-Ameria Petroleum Refinery”.
- 1995 - 1996* Consultant, Arab League, "Joint Committee on Environment and Development in The Arab Region".
- 1996 – 1997* Consultant, Social Development Fund (SDF) & University of Alexandria, Project “Relocation of Smelters and Foundaries in Alexandria Governorate”.
- 1996 - 2000* Consultant, Alexandria Cooling Company.
- Jan.-Dec.1997* UNDP member of the Knowledge Consultancy Committee for Alexandria Governorate, Project of Human Development.
- 1997 – 1998* Consultant, USAID, Project "Environmental Pollution Prevention Project (EP3)".
- 1997 – 2005* Consultant, Alexandria Local Popular Council, Environmental Affairs.
- 1998 –1999* Consultant, Environmental Quality International EQI-Policy Management Group, Project "Solid Waste Management", USAID.
- 1998 – 2000* Consultant, Abt. Associate, Project "Solid Waste Management Project in Alexandria", USAID.
- 2000 - 2001* Consultant, Abt. Associate, Project "Solid Waste Management Projects in Cairo & Qalubya", USAID.
- 2001 – 2002* Consultant, AMA, SPA City of Rome Company, Italy, Project "Preparation of Solid Waste Management Technical and Financial Offers to Cairo Governorate (East, North, West, & South), Dakahlia Governorate, and Bahrain Kingdom".
- 2000 - 2006* Member of the Committee for the Development of Lake Maryut, Alexandria, Dept. of Fishries, Ministry of Agriculture, Egypt.
- 1999 – 2003* Senior Policy Advisor, CH2 M Hill, Project “Institutional Strengthening and Policy Reform for Alex. General Organization for Sanitary Drainage”, USAID.
- April 2001-2007* Advisor to the Governor of Alexandria for Environmental Affairs.
- 2002 – 2003* Senior Policy Advisor, Deloitte Touche Tohamatsu, Project “Public-Private Partnership in the Water and Wastewater Sectors in Alexandria”, USAID
- 2002 – 2003* Consultant, AED, The Establishment of an Exploratorium Center at the Red Sea -- USAID.

- 2003 – 2005 Consultant, The Egyptian-Swiss Development Fund (ESDF), Project "An Integrated Comprehensive Development of Abbis Villages, Alexandria, with Emphasis on Sanitation".
- Apr.-Sep.2004 Deputy chief of Party - Senior Policy Advisor, Segura/IP3 Partners LLC, Project "Feasibility Study for Private Sector Participation (PSP) in the Operation and Maintenance of Alexandria Water & Wastewater Utilities, USAID.
- Feb.2005 - 2006 Consultant, The World Bank, Project "Alexandria City Development Strategy I".
- 2006 - 2007 Consultant, The World Bank, Project "Alexandria City Development Strategy II".
- 2005 – 2007 Consultant, European Commission (CEDARE), Project "Institutional Set-up & Policy reforms, Integrated Environmental Management System, of Lake Maryut, Alexandria".
- May2007 – Feb.2008 Consultant, Egyptian Swiss Development Funds, Egypt " Mid-Term Evaluation for Urban Environmental Upgrading of West District, Minia City (An Integrated Development Project with Focus on Solid Waste Management)".
- 2007 - now Consultant, Water and Sanitation – Policy & Institutional Reforms and Environmental Impact, Consulting Engineers Dr. Ahmed Abdel Wareth, Egypt "Projects in Yemen, Tanzania, Rowanda, Egypt"

### ***Training & Promotion***

- Supervised in Environmental Studies  
35 M.Sc. and 15 Ph.D degrees.
- Published 43 Scientific papers in International Journals.
- Supervised and conducted courses on various environmental topics, particularly those related to industry and environmental management.
- Training Courses on Private Sector Participation in Solid Waste Management for Administrative and Technical Staff of Governorates of Beni Suef, Aswan, Cairo, and Qalubya.

- Training Courses for the industrial sector in Alexandria on water and wastewater management.
- Solid Waste Management Training Courses in Urban Environmental Management Program, Ministry of Housing and New Urban Communities.
- Post experience courses on EIA and Environmental Management at the Leadership Training Center, Ministry of Business Sectors, Cairo, Egypt.
- On Job Training of 200 University Graduates on Solid Waste Management: Monitoring of the Contractor Service Provision – Alexandria Governorate.

### ***Membership***

- ❖ The Committee for Infrastructure, Environment, Economic Development, Supreme Council of Egyptian Universities (1990-1994).
- ❖ High Executive Committee for Strategies of Biotechnology and Genetic Engineering – Academy of Science and Technology – Ministry of Higher Education and Scientific Research - ARE (1998-2010).
- ❖ The General Committee of Water & Sanitary Drainage Holding Company (2002-2014).

### ***Awards***

- Two British Council Travelling Grants for Further research and scientific links in Britain.
- University of Alexandria Prize in Science, 1986.
- ODA award in research into microbiology, January-June 1986.
- USA award in Environmental Protection Efforts in the U.S., October 15 – November 9, 1991.
- British Council Award in Environmental Microbiology, September 1992.
- University of Alexandria Honourary Prize for Academic Achievement, 2007.

### **Recent Publications:**

1. Sharaf, M., A. Amara, A. Aboul-Enein, S. Helmi, A. Ballot, A. Astani, P. Schnitzler. (2010). Molecular authentication and characterization of the antiherpetic activity of the cyanobacterium *Arthrospira fusiformis*. *Pharmazie* 65 (2): 132-136.
2. Sharaf, M., A. Amara, A. Aboul-Enein, S. Helmi, A. Ballot, A. Astani, P. Schnitzler. (2013). Antiherpetic efficacy of aqueous extracts of the cyanobacterium *Arthrospira fusiformis* from Chad. *Pharmazie* 68: 376–380.
3. Fawzy Manal Mahmoud Nasr, Samar Adel, Heba Nagy, Shacker Helmi. (2016). Environmental approach and artificial intelligence for Ni(II) and Cd(II) biosorption from aqueous solution using *Typha domingensis* biomass. *Ecological Engineering*, 95: 743–752.
4. Fawzy Manal, Mahmoud Nasr, Heba Nagy, Shacker Helmi. (2017). Artificial intelligence and regression analysis for Cd(II) ion biosorption from aqueous solution by *Gossypium barbadense* waste. *Environmental Science and Pollution Research*. DOI:10.1007/s11356-017-0922-1.
5. Fawzy, Manal, Mahmoud Nasr, Shacker Helmi & Heba Nagy. (2017). Experimental and theoretical approaches for Cd(II) biosorption from aqueous solution using *Oryza*. *International Journal of Phytoremediation*, DOI: 10.1080/15226514.2016.1183580
6. Fawzy, M., M. Naasr, S. Adel, S. Helmi. (2018). Regression model, artificial neural network and cost estimation for biosorption of Ni(II)-ions from aqueous solutions by *Potamogeton pectinatus*. *International Journal of Phytoremediation* 20 (4):321-329.