

## CURRICULUM VITAE

1. **Family name:** Abdel-Halim
2. **First names:** Walid Sayed
3. **Date of birth:** 24.01.1970
4. **Passport holder:** Egyptian
5. **Residence:** Egypt
6. **Phone:** +201271110814
7. **Email:** walida.halim@aol.de                      Skype: dr.abdel-halim
8. **Education:**

Institution [ Date from - Date to ]	Degree(s) or Diploma(s) obtained:
Hannover University, Institute of Water Quality and Waste Management, Hannover, Germany (2001-2005)	Ph.D. Environmental Engineering (Water and Wastewater treatment and waste management) Very Good
Cairo University, Faculty of Engineering, Cairo, Egypt (1996 – 2000)	M.Sc. Civil /Water and Sanitation Engineering
Ain Shams University, Faculty of Engineering, Cairo, Egypt (1988 – 1993)	B.Sc. Civil Engineering Very good with honor degree – Rank 8/63 – Graduation Project (Sanitary and Environmental Engineering ): Excellent

9. **Language skills:** Indicate competence on a scale of 1 to 5 (1 - excellent; 5 - basic)

Language	Reading	Speaking	Writing
<b>Arabic</b>	1	1	1
<b>English</b>	1	1	1
<b>German</b>	1	2	1

10. **Membership of professional bodies:**

Member of International Water Association (IWA). Member of IWA working groups for: ecological sanitation; anaerobic digestion; wastewater treatment and re-use. Member of German Association for water, wastewater, and solid waste management (DWA-DVWK). Member of American Society of Civil Engineers (ASCE). Member of Egyptian Engineering Syndicate. Member of Egyptian Association of Civil Engineers. Member of Egyptian Environmental Engineering Society. Member of Euro-Arab research group for waste treatment. Member of Filtration Separation Magazine since 1999. Member of *MENA-Water* Region Water Resources and Wastewater Network. Member of Taskforce for steering of Higher education reform process via strategic planning unit in the ministry of Higher education and scientific research. Member of ACWUA " Arab Countries Water Utilities Association". Member of Operation and Maintenance Arab Institute "OMAIN".

11. **Other skills:** (e.g. Computer literacy, etc.)

Winword, 2007; Excel-5,7,2000, 2007; Windows 95,98,2000,XP, 2007, Windows 7; Power point (Présentations, Lectures,.etc.); Application of water Cad and Sewer Cad for water and wastewater

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networks analysis and design; Environmental application of GIS for water and wastewater management concept; Microsoft Project for planning and time scheduling; Software application in Civil/Environmental Engineering and working with spreadsheets; Internet and mail skills; Online Workgrouping and Networking

- 12. Present position:** *Dr.-Eng., Consultant Engineer*
- ✓ Associate Professor, Head of Department of Environmental Engineering Research and Studies (EERS), Institute of Sanitary and Environmental Engineering (ISEE), Housing and Building National Research Center (HBRC), Cairo, Egypt
  - ✓ Executive Manager of EnviroConsult Consulting Firm
- 13. Years within the firm: 17 Total Experience: 20 years**
- 14. Key qualifications:**
- Nineteen years experience in infrastructure, water, wastewater management and environmental studies freelance consultation including design, revision, planning, assessment, reporting, and supervision of different water, wastewater works (treatment, networks, storage ...etc.) including five years experience in Industrial Wastewater management and treatment comprising cleaner production, in plant/in process measures, and end of pipe treatment
  - Ten years experiences in water and wastewater operation and maintenance schedules and preparation of standard operation procedures (SOPs) including preparation of operating plans, determining training requirements, review operation works, preparing of operating manuals, estimate operating costs as well as works in environmental improvement including preparing of health and safety manuals. Implementation of operating plans: review the performance of recent / daily operating procedures, preparing / review maintenance plans as well as preparing operating and maintenance budget. Implementation of maintenance strategy. Collecting and analysing water production data: detection of water leakage. Planning public awareness program for the importance of leakage awareness: planning the program of leakage awareness, executing leakage awareness campaign and review the performance of leakage awareness campaign. Estimate the Unaccounted for Water (UFW). Preparing and presenting periodic follow up reports.
  - Fifteen years managerial experience in Engineering Consulting firms "EnviroConsult" passing through management positions of team leader, technical manager and executive manager leading a firm with 159 employees
  - Ten years of managerial position within the Housing and Building National Research Center (HBRC), Environmental Engineering Institute, passing through team leader for research projects within the institute and then Head of the department of Environmental Engineering Research and Studies (EERS).
  - Team member of the Task-Force Group in the Ministry of Higher education and scientific research aiming at strengthen, empower and reinforcement of the cooperation between industry and scientific research in the Egyptian universities and research institutes.
  - Sixteen years of experience in Teaching/Training skills for Engineering/Environmental courses including giving problem solving sessions, answering questions, grading assignments and laboratory reports as well as assessment of graduation/ research projects as well as training needs and evaluation. Delivered training courses to engineers and technicians related to design, construction supervision and operation of water, domestic and industrial wastewater systems. All training courses were sponsored by financing agencies (USAID, DANIDA, FINIDA, CARE, World Bank, UNDP Projects).
  - Scientific and Technical Evaluator in the European Commission (European Research Agency-ERA) evaluating the technical proposal submitted to the Engineering Panel of Career Re-establishment CAR. Scientific Evaluator in the Egyptian scientific and Technological Board and Research Development and Innovation (RDI) evaluating different research proposals under different S&T rounds.

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### 15. Specific experience in the region:

Country	Date from - Date to
Egypt	1993- Present
Germany	2001-2005
The Netherlands	2003
Syria	2006
Saudi Arabia	2009-2010
Kuwait	1999
USA	2008

### 16. Employment Record:

<b>From –To (Years)</b>	<b>2011 - Present</b>
<b>Employer</b>	HYDROPLAN Ingenieur Gesellschaft mbH in Association with EnviroConsult for Infrastructure and Environmental studies Consulting Firm
<b>Position held</b>	Deputy Team Leader and senior process engineer for World Bank ISSIP1 Project
<b>From –To (Years)</b>	<b>1996 – 2001 and 2005 - Present</b>
<b>Employer</b>	Housing and Building National Research Center (HBRC), Institute of Sanitary and Environmental Engineering (ISEE)
<b>Position held</b>	Head of Department of Environmental Engineering Research and Studies (EERS)
<b>From –To (Years)</b>	<b>2001 – 2004 and 2004-2005</b>
<b>Employer</b>	Hannover university, Institute of water Quality and Waste Management (ISAH), Germany AquaConsult consulting Firm-Hannover, Germany
<b>Position held</b>	Scientific Researcher and international Research proposals preparation coordinator. Short-Term Water and Wastewater Expert
<b>From –To (Years)</b>	<b>1994 – 2001 and 2005 - Present</b>
<b>Employer</b>	Enviroconsult Engineering Consultancy Firm
<b>Position held</b>	Water and wastewater Expert, Executive Manager

### 17. Freelance consultancy Assignments/ Contracts/ Teaching and Research activities :

<b>From –To (Years)</b>	<b>1995 – 1998 (Part-time Basis)</b>
<b>Employer</b>	The American University in Cairo (AUC) at Construction Engineering Unit (Water & Environmental Department).
<b>Position held</b>	Teaching Assistant and scientific researcher (Environmental Engineering, Hydraulics, Water and sanitation Courses).
<b>From –To (Years)</b>	<b>2006 – 2008 (Short-Term Contract)</b>
<b>Employer</b>	German Technical cooperation organization <b>GTZ/ GIZ</b>
<b>Position held</b>	Short-Term Technical and Training Expert (Cairo and Syria)
<b>From –To (Years)</b>	<b>2005 – 2012 (Short-Term Contract)</b>
<b>Employers</b>	<b>Various:</b> <ul style="list-style-type: none"> <li>▪ CARE International</li> <li>▪ United Nation Development Program and UN-Habitat</li> <li>▪ Dorsch Consult (Water and Environment)</li> <li>▪ Chemonics Egypt Company</li> <li>▪ Civil Engineering Research and Studies Center, Faculty of Engineering, Cairo University</li> </ul>
<b>Positions held</b>	Water and Sanitation Expert, Environmental Expert, Short-Term W&WW and Environmental Expert, Technical, Research and Training W&WW Expert.

18. Professional experience

Date from - Date to	Location	Company	Position	Description
2011 - Current	Cairo, Egypt	HYDROPLAN ingenieur-Gesellschaft mbH In Association with ENVIROCONSULT Firm	Deputy Team Leader of the First Integrated Sanitation & Sewerage Infrastructure Project (ISSIP-01) Funded by the WorldBank (181 million USD)	<ul style="list-style-type: none"> <li>▪ Consultancy services for Technical Assistance and Project Management of Wastewater projects in 222 villages in Behera, Gharbyia and Kafr El-Sheikh Governorates, Egypt.</li> <li>▪ Leading a technical, financial and procurement team consists of 20 team members.</li> <li>▪ Full assistance to the PIU in the holding company for Water and Wastewater (HCWW)</li> <li>▪ Preparation works in Planning, Technical Supervision of all Water, wastewater management and environmental studies including design, revision, planning, assessment, reporting, and supervision of different water, wastewater works (treatment, networks, storage, etc.) and especially in the design of centralized and decentralized wastewater treatment systems. Direct experience in costing of civil structures, estimating Operation and Maintenance costs of wastewater treatment infrastructure, designing and managing a water quality-sampling regime, and wastewater modelling.</li> </ul>
2008-2011	Cairo, Egypt	CCERS in association with ENVIROCONSULT Firm	Team Leader of the consultancy services within the Second Integrated Sanitation & Sewerage Infrastructure Project (ISSIP-02) Funded by the WorldBank (300 M USD)	<ul style="list-style-type: none"> <li>▪ Consultancy services for Planning and Design of Wastewater projects in 24 villages in Sohag Governorate, Upper Egypt including Feasibility study, project prioritization, Project Implementation manuals and full design Packages of Centralized and Decentralized systems</li> <li>▪ Leading a technical and procurement team consists of 12 team members.</li> <li>▪ Full assistance to the PIU in the holding company for Water and Wastewater (HCWW)</li> </ul>
2007-2010	Cairo, Egypt	ENVIROCONSULT Firm	Team Leader of the consultancy services of 8 wastewater projects and 4 water projects in Sohag and Assuit Governorates funded by USAID (40 M USD)	<ul style="list-style-type: none"> <li>▪ Consultancy services for full design and construction Management of Wastewater projects in 8 villages in Sohag and Assuit Governorate, Upper Egypt including Feasibility study, and full design Packages and tender documents as well as construction management and supervision.</li> <li>▪ Leading a technical design team consists of 10 team members and construction team of 15 members</li> <li>▪ Full reporting requirements to the USAID Egypt</li> </ul>

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Date from - Date to	Location	Company	Position	Description
1996-2001 And 2005-Present	Cairo, Egypt	Housing and Building National Research Centre (HBRC.), (Institute of Sanitary and Environmental Engineering).	Dr.-Eng. "Associate Professor"/ Head of Department of Environmental Engineering Research and Studies (EERS)	<ul style="list-style-type: none"> <li>▪ Managerial activities of EERS Department including technical, financial and administrative duties.</li> <li>▪ Investigation of integrated low-cost sanitation systems and their application</li> <li>▪ Develop and evaluation of water and wastewater treatment systems among urban and rural areas in several Egyptian Governorates.</li> <li>▪ Develop new technologies for low cost wastewater treatment and sustainable reuse for new communities and small villages in Egypt.</li> <li>▪ Preparation, providing and teaching of training courses for environmental engineers, technicians, and water industry specialists.</li> <li>▪ Evaluation of water pollution and pollution control for water resources.</li> <li>▪ Design of water and wastewater treatment plants.</li> <li>▪ Mathematical modelling of treatment processes.</li> <li>▪ Consultation concerning water and wastewater management including design, operation, and monitoring.</li> <li>▪ Business development for the department covering official and private sectors.</li> <li>▪ Design of different infrastructure projects</li> <li>▪ Participation in national research planning and Supervise M.Sc. and Ph.D. Students</li> </ul>

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Date from - Date to	Location	Company	Position	Description
2001-2005	Hannover Germany	Institute of Water Quality and Waste Management, Hannover University (ISAH), Water and Wastewater department	W& WW Scientific Researcher  Teaching Assistant  Research Proposal Developer for EU funded project	<ul style="list-style-type: none"> <li>▪ Develop and evaluation of Modern technologies for domestic/industrial wastewater treatment and waste management including the application of in process/in plant modification as an application of Cleaner Production (CP) concepts.</li> <li>▪ Evaluation of operation and maintenance of Mesophilic anaerobic municipal wastewater treatment using UASB-reactor incl. some application of ADM1.</li> <li>▪ Design, operation and evaluation of anaerobic pilot plants.</li> <li>▪ Participation on preparation of planning report and environmental study of water treatment and distribution system for Tabouk city, Saudi Arabia.</li> <li>▪ Performing of anaerobic batch tests to evaluate the anaerobic biodegradability of domestic and various industrial wastewaters.</li> <li>▪ Participation on preparation of operation and monitoring manuals for anaerobic industrial wastewater plants.</li> <li>▪ Participation on design of full scale anaerobic domestic and industrial wastewater treatment plants.</li> <li>▪ Participation on preparation of new projects proposals in wastewater treatment to be submitted and funded by European Commission FP6.</li> <li>▪ Participation in development of IWRM programs for developing countries</li> <li>▪ Providing training courses on water and sanitation sector for engineers, technicians and inspectors.</li> </ul>
1995-1999 (Part Time)	Cairo, Egypt	The American University in Cairo (AUC) at Construction Engineering Unit (Water & Environmental Department).	Teaching Assistant	<ul style="list-style-type: none"> <li>▪ Assisted in teaching of Environmental, Sanitary and Hydraulic courses including giving problem Solving sessions, answering questions and grading assignments and lab reports.</li> <li>▪ Participation on preparation of worksheets and some parts of mid-term exams.</li> <li>▪ Participation on grading of mid-term exams and lab reports.</li> <li>▪ Graduation projects follow-up and evaluation process.</li> <li>▪ Implementation of environmental research projects (Water/Wastewater treatment) including proposal preparation, scheduling, follow-up, execution and reporting.</li> </ul>

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Date from - Date to	Location	Company	Position	Description
<b>Freelance Consultation for different companies</b> ( As Water & Wastewater Management and Environmental Expert)	Germany 2004-2005	AquaConsult-Hannover	Short-Term W&WW Expert	<ul style="list-style-type: none"> <li>▪ Participation in the study of water supply system for Tabuk city in Saudi Arabia including study of different alternatives of pipeline layout, booster pumping stations and storage works.</li> <li>▪ Several tradability studies for different industrial wastewater types using anaerobic and aerobic best available batch techniques in association with ISAH institute. Hannover University</li> </ul>
	Egypt(2007-2009) Syria (2006)	German Technical cooperation organization <b>GTZ</b>	Short-Term Technical and Training Expert	<ul style="list-style-type: none"> <li>▪ Prepare, coordinate and providing technical training courses for master planning units in Holding company for water and wastewater (HCWW) and all of 16 affiliated companies. The courses include design of water and wastewater networks, Design of water and wastewater treatment plants as well as Water cad and sewer cad courses and economical analysis. The courses have been prepared and provided for engineers and economists in HCWW and affiliated companies.</li> <li>▪ Management and evaluation of Training programme provide to the Master plan units in affiliated companies of HCWW</li> <li>▪ Technical Support for the TSM project for getting the certification of quality from German association DWA for operation and maintenance in water and wastewater treatment plant belonging to HCWW. The duties included the preparation of TSM question catalogue according to the DWA guidelines, user manual “how to fulfil the question catalogue” preparation of water and wastewater treatment plants in Qena, Sharkia water and wastewater companies as well as El-Berka WWTP and Obour WTP for TSM inspection. Participation in the evaluation of the first 5 pilot W&amp;WWTPs awarded for TSM Egypt certification.</li> <li>▪ Providing presentations of ecological sanitation and wastewater treatment systems for WW-decision makers in the Damascus governorate, Syria</li> </ul>

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Date from - Date to	Location	Company	Position	Description
	Egypt (2005-2008)	<b>CARE</b> international	Water and Sanitation Expert	<ul style="list-style-type: none"> <li>▪ Integrated Design of low cost decentralized system for rural area (four villages with population of 2000 to 6000 persons) and providing presentations of low-Cost wastewater management.</li> <li>▪ Providing workshops in integrated low cost sanitation systems</li> <li>▪ Study and post assessment of wastewater systems and providing solutions for upgrading and enhancement for the non-comply low-cost WWTPs</li> <li>▪ Design of wastewater treatment plants in several villages in Beni Suef Governorate.</li> </ul>
<b>Freelance Consultation for different companies</b> ( As Water & Wastewater Management and Environmental Expert)	Egypt (2008-Present)	United Nation Development Program <b>UNDP Habitat</b>	Water and Sanitation Expert	<ul style="list-style-type: none"> <li>▪ Preparation of strategic master plan of Fowa City , Kafr El-Sheikh governorate and Kom Hamada City, Behera governorate for Basic Urban Service BUS (Water, Sanitation and Solid waste management) via direct contract with Habitat in the framework of the project of Strategic master plan for Small cities overall Egypt.</li> <li>▪ Participated in BUS workshop for the alternative sanitation solution for developing and stressed countries.</li> <li>▪ Master Plan of BUS for Naqada, Hamoul and Etai El-Baroud cities</li> <li>▪ Master plans of BUS for Sahl Selim, Dengat and Shoubrakheet cities including infrastructure design</li> </ul>
	Egypt (2008)	Dorsch Consult (Water and Environment)	Environmental Expert	Participation in Revision of Environmental Impact Review and assessment for Environmental facilities program/ Public Sector Industry (FACE program). During the program, 43 projects are completed and in operation and 5 projects remain in progress. The grant fund allocated was 25565 Euros. The revision duties were assessment and review of the facility documentation and records combined with outstanding PCA inspections and visits to selected older ten projects to assess the longer term impacts and sustainability of the project. Also the assignment included supervision of demonstration workshop coordinated with KFW and EEAA.
	Egypt (2006-2008)	Danida – SDEM Component	Water and Sanitation Expert	<ul style="list-style-type: none"> <li>▪ Integrated Design of wastewater networks in several villages and cities in Aswan and Beni Suef</li> <li>▪ Design of wastewater treatment plants in Behera governorate.</li> </ul>



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Date from - Date to	Location	Company	Position	Description
<b>Freelance Consultation for different companies</b> ( As Water & Wastewater Management and Environmental Expert)	Egypt	Chemonics Egypt Company	Short-Term W&WW and Environmental Expert	<ul style="list-style-type: none"> <li>▪ Design of shop drawings for several environmental works including the development of the program followed to study the tender documents, appraisal, installation, and monitoring of the project.</li> <li>▪ Review and assessment of the tender documents including design check, appraisal, price analysis, cost sheets preparation, and negotiation with suppliers and subcontractors.</li> <li>▪ Participated in several infrastructure and environmental feasibility studies in local provincial governorates as financed by the Egyptian Social Fund for Development.</li> <li>▪ Data collection, analysis and evaluation for different studies including social, environmental, and public health data.</li> <li>▪ Planning, design, tendering and coordination of infrastructure and environmental projects.</li> <li>▪ Participated in Pre-screening / Project Identification for the Facility for Financing Environmental Protection in the Public Sector Industry financed by KfW.</li> </ul>
	Egypt (2005-Present)	Civil Engineering Research and Studies Center, Faculty of Engineering, Cairo University	Technical, Research and Training W&WW Expert	<ul style="list-style-type: none"> <li>▪ Design of water and wastewater networks and treatment plant</li> <li>▪ Evaluation and review of design, planning reports and tender documents for water and wastewater systems.</li> <li>▪ Providing training Courses in water, wastewater and waste management</li> <li>▪ Preparation and providing of water and sanitation training courses for engineers and technicians within the Sohag Rural Development project funded by World Bank</li> <li>▪ Voice General Project Manager of the contract of consultancy services in water, wastewater and sanitation projects within the Sohag Rural Development Project funded by World Bank.</li> </ul>

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Date from - Date to	Location	Company	Position	Description
<p>1994-2001</p> <p>and</p> <p>2005-Present</p>	<p>Egypt</p>	<p>EnviroConsult Engineering Consulting Firm</p>	<p>Long-Term W&amp;WW Expert/ Executive Manager (Partner and Member of Board)</p>	<ul style="list-style-type: none"> <li>▪ <b>Executive Manager and MOB</b> managing the technical issues including preparation of technical and financial offers submitted to different organizations; design phase follow-up and review; tender documents; contractor evaluation and control the awarding process; and construction supervision management.</li>   <li>▪ <b>Assigned Duties:</b> Team Leader for Projects implementation including design, tender documents, and construction supervision and management during last 5 years: Ca. 80 water supply projects ; Ca. 150 Wastewater management Projects; 55 Rural Sanitation Projects; 35 Environmental studies and 5 Waste Management Projects; 25 Water Hammer, 40 Plumbing works for buildings incl. Ca. 20 Swimming pools, Ca. 200 Construction supervision sites management, 3 capacity building projects including 135 training modules. Detailed Engineering for more than 25 factories, collection and treatment of industrial WW. Preparation of more than 15 EIAs, EMPs including the Environmental Safeguards procedure before, during and post infrastructure project s implementation. All of Top Management activities, business plans and strategic action plans for the whole firm. Business development activities at level of public and private sectors.</li> </ul>

**# For Reference Persons, please refer to clause 20**

19. Other relevant information (e.g., Publications)

Awards

- Ph.D. Scholarship in Germany (2001-2005): from the German Academic Exchange Services "Deutsche Akademische Austausch Dienst- DAAD" organization at Hannover University, Institute of Water Quality and Waste Management.
- Tempus- IMG grant from the EU to finance attendance to water and civilization conference in Paris, France 2005.
- Award of US-Egypt joint Science and Technology Board of a grant for a joint research project entitled "Demonstration of Anaerobic Digestion for cost-effective municipal wastewater treatment in Egypt-DAD project" In year 2004 as Co. PI.
- Young Researcher, in association with Menoufya University, of US-Egypt joint Science and Technology Board of a grant for joint research project incorporation with Auburn University entitled "A Pilot Plant Study for Treatment of Domestic Wastewater Using Hybrid Growth System." Award No. ENV7-002-001.
- Research Visit at Rostock University, Germany, summer school Sept 2002
- Research visit at Wageningen University, the Netherlands Nov. 2004
- Events Coordinator of IWA-Specialized Group of Institutional Governance and Regulation since Jan. 2007
- Anakoma cooperative project for anaerobic- aerobic wastewater treatment using natural UASB-Pond. The project is funded by BMBF and its partners are Hannover University, Cairo University, UCY company, Passavant Company and coordinated in Cairo by Dr. Walid Abdel-Halim, HBRC
- Summer School in Water and Waste management, DAAD- Alumni, University of Siegen, Gummersbach, Germany 5-18 September 2010, funded by DAAD
- International Training Programme on Transboundary Water Management (TWM) in the Middle East and Northern Africa Region (MENA) 2010/11 in the period of 31.10-12.11.2010 in Amman, Jordan and of 21-25 Feb., 2011 in Stockholm, Sweden Funded by Swedish International Development Agency- Sida.
- Research Visit in Water and Waste management, DAAD- Alumni, University of Berlin, Germany in May 2011, funded by DAAD
- Coordinator for Study tour to investigate the centralized and Decentralized wastewater systems in Germany and the Netherlands funded by ISSIP2 projects- World Bank, March 2012

Publications

**Some Selected Scientific Publications:**

- Walid Abdel-Halim "Cost-Effective Anaerobic-Aerobic Treatment System for High Strength Wastewater" Journal of Al-Azhar University Engineering Sector –(Accepted for publication in 2013).
- S.I. Abou-Elela, M. E. Fawzy and W. Abdel-Halim " Packed Bed Up-Flow Anaerobic Sludge Blanket Combined with Multistage Sand Fine Roughing Filtration for Municipal Wastewater Treatment and Reuse " Reviewed and Accepted for publication in the International Journal of Sustainable Development and Planning published by WIT Press, UK, 2013
- Abou-Elela S.I, Abou Taleb E., M.A. El-Khateeb, Badr N. and Abdel-Halim W. " Environmental Management of Pharmaceutical Wastes: Experience from Egypt " International Water Technology Journal, Vol. 2 – No.2, June 2012.
- S.I Abou-Elela, M. E. Fawzy, M. El-Khateeb and W. Abdel-Halim " Integrated sustainable anaerobic treatment for low strength wastewater " Fifth International Conference on sustainable Development and Planning, New Forest, UK, July 2011
- Walid Abdel-Halim, D. Weichgrebe, Hisham S. A. Halim and k.-H. Rosenwinkel " Development of operation and performance monitoring guidelines for anaerobic industrial wastewater treatment plants- Case study for agro-based industries in Germany and Egypt" The Seventh International Symposium on Waste Management Problems in Agro-Industries, Amsterdam RAI, The Netherlands, 27-29 September 2006.

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- Walid Abdel-Halim and K.-H. Rosenwinkel "Municipal Wastewater Treatment and sustainable Reuse in Arab Countries: Standards and Technologies" Arab water Council Journal, volume 1 No.1, March 2007
- W. Abdel-Halim (2011): Low cost wastewater management for green building. HBRC international conference for Green Building concepts.
- W. Abdel-Halim, D. Weichgrebe, and K.-H. Rosenwinkel (2004): Using of ABT/AFBT techniques to predict design, start-up, and operation parameters for mesophilic anaerobic municipal wastewater treatment using UASB reactor. Proceedings of IWA-, 10th World Congress of Anaerobic Digestion AD10-2004, Montreal Canada. Vol.3, 1421-1425.
- Abdel-Halim W., Weichgrebe, D., and Rosenwinkel, K.-H. (2010): Determination of anaerobic biodegradability of domestic wastewater, comparison between inoculation with digested and granular sludge. Proceedings of the second CIWEM conference, Sep. 2010. The Chartered Institution of Water and Environmental Management CIWEM, Wakefield, England. Vol. 2, 45-52.
- Hisham A. Halim, Walid Abdel-Halim, and M.Nazih (2004): Selection and Evaluation of appropriate sanitation systems in rural Egypt. Case study in Sohag Governorate, Upper Egypt. Proceedings of the 30th International CIB Water symposium, CIB W062-2004, CSTB, Paris, France.
- Walid Abdel-Halim and Ezzat A. Shafi (2000): Surface Water Treatment by Multi-Stage Horizontal in-line Direct Filtration Systems, Cairo University Magazine, Vol.6-2000.
- Walid Abdel-Halim (2011): Evaluation of anaerobic digestion as a low cost technology for domestic wastewater treatment in Egypt. Workshop, Housing and Building Research Centre, HBRC, Cairo, Egypt. Feb. 2011.
- Walid Abdel-Halim, Hisham S. A. Halim, and K.-H. Rosenwinkel (2010): Anaerobic Municipal Wastewater Treatment in Developing Countries, Comparable Alternative Systems and Prospective Proposals. Proceedings of International conference on future vision and challenges for urban development, Housing and Building Research Center, Cairo, Egypt.
- Walid Abdel-Halim and K.-H. Rosenwinkel (2005): Municipal wastewater treatment, reclamation and re-use- Technologies and standards. Proceeding of 1<sup>st</sup> German-Arab Water conference, Hannover, Germany 20-21 June, 2005.
- Walid Abdel-Halim and K.-H. Rosenwinkel (2005): Wastewater treatment, reclamation and sustainable reuse-Experiences from Germany. Keynote presentation is presented by Prof. Rosenwinkel on the 7<sup>th</sup> Gulf Water Conference held on 19-23 November 2005, State of Kuwait.
- Walid Abdel-Halim, Dirk Weichgrebe, Johan Verink and K.-H. Rosenwinkel: Environmentally sound municipal wastewater treatment and sustainable re-use for maintaining natural eco-systems (ESNES)- Prospective proposal for cost-effective technology in developing countries. Specialized IWA conference for wastewater treatment for sustainability, South Korea, November 2005.
- Walid Abdel-Halim: Renewable bio-Energy and Sustainable Waste treatment Techniques (REST). *Abstract* submitted to the 1<sup>st</sup> Cleaner Production Conference, Cairo, Egypt 2011
- Walid Abdel-Halim and K.-H. Rosenwinkel (2005): Domestic Wastewater treatment and sustainable reuse-Closing the Loop, EMPOWERS Regional Symposium, Nov. 2005, Cairo, Egypt.
- Demonstration of Anaerobic Technology for cost-effective municipal wastewater treatment and reuse- Experiences from Germany and Egypt, Syrian water symposium, Damascus, Syria Dec. 2007
- Walid Abdel-Halim, Hisham S. A. Halim and M. Nazih (2009): Alternative Sanitation systems in rural Egypt, Regional Arabian Conference "Joint between Urban and –rural", , Cairo, Egypt. ***"this paper was selected and awarded among the most innovative 3 papers presented in this conference"***
- Walid Abdel-Halim, Dirk Weichgrebe, and J. Verink (2006): Natural-Oriented municipal Wastewater Treatment and Reuse (NOWTR)- Answering for Sustainability, EMWater Regional Conference 30 Oct.- 01 Nov. 2006, Amman, Jordan ***"this paper was selected among the most innovative 5 papers presented in EMWater conference"***

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### Training courses

- Research Visit at Rostock University, Germany, summer school Sept 2002
- Research visit at Wageningen University, the Netherlands Nov. 2004
- Research Visit at University of Arizona, Tucson, Arizona, USA, Nov. 2008
- Training coordination Visit for Advanced Wastewater Management and Water Quality Courses at Unesco-IHE, Delft, The Netherlands, 2009
- Cooperative research visit at ISAH institute , University of Hannover, Germany, 2007
- "Geographical Information System (GIS) for Urban Planning and Administration", Egypt Netherlands Cooperation Project " TRHUD "
- "Cleaning Production Assessment Training of Egyptian Consultant – Capacity Building"
- The Environmental Compliance Office (ECO) – Federation of Egyptian Industries (FEI), 2005, Cairo, Egypt
- Water, Wastewater, Environmental Engineering, and Hydraulic Analysis and Modelling Courses” for junior and professional Engineers at Housing and Building National Research Centre, HBRC, Cairo, Egypt.
- “WaterCad and SewerCad Hydraulic Analysis and Modelling technical training courses” for master planning units’ engineers belonging to Holding Company for Water and Wastewater HCWW and all its 16 affiliated companies.
- Training Service of "Sohage Rural Development Project", funded by the World Bank, 2006, Sohag City, Egypt
- Training of Trainers (TOT) in certification of Engineering inspectors (2009)
- Intensive course in six workshops on Leadership, Management, Strategic Planning and communication skills, DAAD (2009)
- Workshop on Decentralization of utilities sector in Egypt, USAID (2009)
- TSM information sessions, GTZ and HCWW (2008, 2009)
- International Training course on Transboundary Water Management in MENA Countries, funded by Sida in cooperation with Jordanian University Amman 2010 and to be completed in Stockholm Feb., 2011

### 20. Reference Persons

<p><b>1. Prof. Dr. Karl-Heinz Rosenwinkel</b>            Head of ISAH Institute, University of Hannover            Welfengarten 1, 30167 Hannover , Germany            Tel. No. +49-511-762-2276            Fax Number +49-511-762-2881            E-mail: rosenwinkel@isah.uni-hannover.de</p>	<p><b>2. Prof. Dr. Jim Field</b>            Professor Address University of Arizona,            P.O. Box 210011, Tucson, Arizona, USA            Tel. No. +1-520-626-5858            Fax Number +1-520-621-6048            Email: jimfield@email.arizona.edu</p>
<p><b>3. Dr. Hans-Werner Theisen</b>            Head of water and wastewater management            program, GTZ            Holding Company of water and wastewater ,            Egypt            Tel. No. +202-2459-8405            Fax Number +202-24591-8411            E-mail: Hans-Werner.Theisen@gtz.de</p>	<p><b>4. Dr. Dirk Weichgrebe</b>            Head of solid waste management department ISAH            Institute, University of Hannover            Welfengarten 1, 30167 Hannover , Germany            Tel. No. +49-511-762-2228            Fax Number +49-511-762-2881            E-mail: weichgrebe@isah.uni-hannover.de</p>
<p><b>5. Eng. Mamdouh Raslan</b>            Vice-Chairman of HCWW            Email:mamdouh.raslan@hcww.com.eg            Tel. No. +202-24583591/92/93/94</p>	<p><b>6. Prof. Dr. Eng. Hisham S.A. Halim</b>            Professor at Faculty of Engineering,            Cairo University            Tel: 202-25166898-            Mobile:202-012-2190562            Fax: 202-25170925            Email: Hishama.halim@access.com.eg</p>