

1- Personal Data

Name: Hisham Mohamed Omar Sherif, Ph. D.

Date of Birth: 11/9/1960

Place of Birth: Dakahlia

Nationality: Egypt

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2- ACADEMIC/PROFESSIONAL PARTICULARS

(a) Field of Specialization:

Chemical Engineering, Solid Waste Management and Technology Applied.

(b) Academic Qualifications

Degree, Major, Year, University, Country, Dissertation Title, GPA

- Ph.D, Chemical Engineering Department, Strathclyde University , United Kingdom. 1994, “ Treatment of Waste Water Using Anaerobic Biological Fillers at Minimm Cost”
- M.Sc., Chemical Engineering Department, El-Minia University, Egypt. 1989: “ Egyptian Village Waste Treatment Design of Appropriate Solutions”
- B.Sc., Chemical Engineering Department, El-Minia University, Egypt. 1983.

(c) Academic Honors and Awards

- a. Egyptian governmental scholarship for PhD study in United Kingdom.(1992-1994)

(d) Membership of Professional Bodies

- 1- Egyptian engineering syndicate.
- 2- US Composting Council.
- 3- Sweep Net.

(e) Language Proficiency

- 1- Arabic (original Language)
- 2- English (fluent)

3- CAREER DETAILS

(a) Academic Positions Held

- Lecturer. Chemical Engineering Department, Minia University, Egypt. (1994 - Present).
- Teaching Associate. Chemical Engineering Department, Minia University, Egypt. (1989 – 1992).
- Teaching Assistant. Chemical Engineering Department, Minia University, Egypt. (1984 - 1989).

(b) Professional/Industrial Positions Held

- Process Engineer, Chemicals Company for new buildings co-operation with western Germany.(1983 – 1984).

4- Teaching Activities

Summary of Courses Taught

1. **History of Engineering Science.**
2. **Engineering chemistry.**
3. **Mass transfer.**
4. **Fluid Mechanics**
5. **Unit Operation.**
6. **Thermodynamics.**
7. **Bio Chemical Engineering Industries.**
8. **Petroleum and Petrochemicals.**
9. **Water and Waste Water Treatment**
10. **Safety.**
11. **Electrochemistry and Corrosion.**
12. **Chemical Engineering Drawing.**
13. **Graduation Project.**

5- Participation in regional & International Conferences

- 1- The 3rd Biomass trade conference and exhibition, Abidjan-Cotivouar. Sep.2019
- 2- The third international conference of 3rd Alternative Fuel Symposium, Berlin 12-13/10/2016.
- 3- The first international conference of 1st East Africa Cement Summit, Ethiopia. 17-19 Mar.2016.
- 4- The Biomass Conference, USA 11-14 Apr.2013.
- 5- The Biomass Conference, USA 11-14 Apr.2014.
- 6- The Biomass Conference, USA 11-14 Apr.2016.
- 7- The Organic Compost Conferences, USA (2006 - 2012).
- 8- WASTEC Conference (waste control and recycling technology), Japan 29 Nov.- 2 Dec. 2005.
- 9- The 14th IFAT Conference for wastewater recycling and waste disposal, Germany.25-29 April 2005.
- 10- The 19th European Conference of Agricultural Waste, Berlin. 6-12 June 2011.
- 11- EUROTIER FAIR, Hanover/Germany 16 - 19 November 2010.
- 12- The 10th Sardinia Conference for waste Management and landfilling, Italy. 3-7 Oct 2005.

6- Research Grants

1. Chemical Engineering Group Leader of the project Titled “Chemically Assisted Primary Treatment. Viability of Waste Water Treatment in Egyptian Communities.” The Project Was Sponsored by Science and Technology Cooperation Project (Egyptian Academy of Scientific Research, and USAID), 1995.
2. Principal Investigator in Preparation of Feasibility Studies for Promising Technology in The Field of “Food Processing Waste Recycling.”, 1997
3. Co- Principal Investigator in the project of producing organic fertilizers and silage treatment in

- the small Egyptian villages, the project is sponsored by the Scientific and Technological Cooperation Project, between the Egyptian Academy for Scientific Research and USAID, 1998.
4. Principal Investigator of the Abu Qir Fertilizer Quality Assessment Project produced from Al-Muntazah Project, sponsored by the Technical and Technological Consulting and Research Fund (TTCSRf), 1998.
 5. Principal Investigator of the Revised Proposal for NCMP Industrial Sewage Treatment Plant in Collaboration with International Biothan Systems, February 1998.
 6. Principal Investigator of the Waste Recycling Project in Egypt, the project sponsored by the Technical and Technological Consulting and Research Fund (TTCSRf), 1997.
 7. Principal Investigator in the technical and economic feasibility project of collective factories for the production of organic compost for Egyptian villages, the project sponsored by the Technical and Technological Consulting and Research Fund (TTCSRf), 1997.
 8. Principal Investigator in the Technical and Financial Proposal of the Industrial Sewage Treatment Plant for Rotex Supplies, in cooperation with ANDCO for Environmental Operations, USA, July 1997.

7- Research Activities

(a) Invited Presentations at Scientific Meetings/Workshops

1- Biomass Management:

- Energy Efficiency and Renewable Energy for Food and Water Security in the Arab Region- Cairo Water Week 2019.
- Technical, financial and contractual requirements for agricultural residues collection, transport and recycling projects, 2016.
- The use of sugar industry residues in the production of compost, animal feed and alternative fuels, 2012
- Challenges and opportunities for producing energy alternatives in Egypt, 2015.
- The Egyptian experience in producing animal feed from agricultural waste, June 2011.
- Technical requirements for the operation and maintenance of an agricultural waste treatment plant, March 2011.
- Study for the establishment of a plant for the production of compost from agricultural waste, January 2009.
- The Egyptian Experience in Projects for Treatment and Disposal of Organic Waste, March 2009.
- Future Vision for Agricultural Waste Collection and Transportation Projects, March 2009.
- Organic Fertilizer and its Role in the Development of Egyptian Agriculture, March 2009.
- The problem of rice straw in Egypt and its solutions, July 2009.
- The Egyptian Experience in Recycling of Waste Based on Sugar Cane Industry, Sudanese Sugar Company, November 2009.
- Projects for collecting, transporting and treating agricultural waste in the governorates of Qaliubiya, Sharkia, Dakahlia and Gharbiya, Ministry of State for Environmental Affairs, March 2008.
- Global and Agricultural Environmental Rice Straw Applications, May 2008.
- Food Waste Recycling, Current Situation and Future Indicators, Ministry of State for Environmental Affairs, December 2008.
- Integrated Management of Agricultural Waste in Egypt, Ministry of State for Environmental

Affairs, January 2008.

- A practical study on health burial in Wadi Al-Hada, Tartus, Syria, January 2007.
- Agricultural Waste Collection, Transportation, and Treatment Project in Qalabsho, Dakahlia Governorate, February 2007.
- Agricultural Waste Shredders, General Secretariat of Local Administration, April 2007.
- Targeted Integrated Management to Operate Agricultural Waste Treatment Plants, Ministry of State for Environmental Affairs, June 2007.
- Targeted Integrated Management to Operate Agricultural Waste Treatment Plants, Ministry of State for Environmental Affairs, June 2007.
- Outsourcing the establishment of a sorting, operating, maintenance, monitoring and control plant for the compost production plant, Abu Dhabi Municipalities, UAE and the Agricultural Division of Al Ain Municipality, August 2007.
- Targeted Integrated Management of Municipal Solid Waste, Giza Governorate, September 2007.
- Agricultural Waste Collection, Transportation, and Treatment Project, Belqas, Dakahlia Governorate, September 2007.
- The Master Plan for Agricultural Waste Management in Egypt, November 2007.
- Agricultural Waste Collection, Transportation, and Treatment Project, Dakahlia Governorate, Ministry of State for Environmental Affairs, November 2007.
- Sludge collection, transport and treatment services project in the 2007-08 season (150 days) in Egypt, Aswan Governorate, Sugar and Integrated Industries, December 2007.
- Integrated Management of Agricultural Wastes at District Level, Egypt, Ministry of State for Environmental Affairs, December 2007.
- Environmental Management Plan for a Solid Waste Conversion Plant to Organic Fertilizer, Damascus, Syria, June 2007.
- Integrated Management of Agricultural Waste, the first scientific conference for agricultural industries in Minia Governorate, 11-13 March 2003.
- Operating Economics of Waste Separation and Recycling Plants and Organic Fertilizer Production, 25-27 January 2003, Integrated Solid Waste Management Conference, Aswan, Egypt, Ministry of State for Environmental Affairs 2003, Cairo, Egypt, Waste 2002.
- Organic Fertilizer Production in Egypt, 21-23 September 2003, Sahari exhibition.

2- **MSW Treatment and disposal Management:**

- The main themes of the solid waste sector management strategy in Egypt, 2016.
- Treatment and disposal strategies for municipal solid waste in Egypt, 2016.
- Technical, financial and contractual requirements for municipal solid waste disposal and disposal projects for the Greater Cairo region, 2015.
- Use of Solid Waste Disposal (RDF) and Transferring it to Fuel Alternatives to Cement Plants, 2011.
- Municipal Solid Waste Treatment and Disposal Strategies, September 2011.
- Institutional Aspects of Solid Waste Management in Egypt, May 2011.
- The Egyptian Experience in Municipal Solid Waste Treatment and Disposal Projects, April 2011.
Technical and Financial Requirements for Municipal Solid Waste Treatment and Disposal
- Projects in Damietta Governorate, August 2010

- Municipal Solid Waste Treatment and Disposal Projects in Damietta Governorate, July 2010.
- Design and supply of equipment for intermediate station for solid waste, Sultanate of Oman, May 2010.
- Design, construction and operation of a municipal solid waste treatment plant, Sultanate of Oman, May 2010.
- Integrated Management of Municipal Solid Waste Treatment and Disposal Projects in Helwan Governorate, March 2010.
- The main pillars of the strategy of the solid waste management sector in Egypt, Ministry of Local Development, February 2010.
- Integrated Solid Waste Management in 6th of October City, January 2009.
- Integrated Management of Municipal Solid Waste Treatment and Disposal Projects (Egyptian Experience), March 2009.
- Integrated Management of Municipal Solid Waste Treatment and Disposal Projects (Luxor), March 2009.
- Integrated Management of Municipal Solid Waste Treatment and Disposal Projects (Aswan), March 2009.
- Middle East Carbon Forum, Challenges and Success Stories of Solid Waste Management, May 2009.
- Targeted Integrated Management of Municipal Solid Waste Treatment and Disposal Projects in Giza Governorate, May 2009.
- Targeted Integrated Management of Municipal Solid Waste Treatment and Disposal Projects in Cairo Governorate, May 2009.
- Targeted Integrated Management of Municipal Solid Waste Treatment and Disposal Projects in Greater Cairo, May 2009.
- Economic Alternatives and Contractual Services for Municipal Solid Waste Treatment and Disposal Projects, May 2009.
- Strengths and Creativity of Solid Waste Management, May 2009.
- Technical and Financial Requirements for Municipal Solid Waste Treatment and Disposal Projects for Greater Cairo, May 2009.
- Integrated Management of Municipal Solid Waste Management and Disposal System for Mansoura City, 500 tons / day, February 2008.
- Study on the construction of a municipal solid waste treatment plant, 1000 ton / day, Syria, February 2008
- The National Project for Integrated Solid Waste Management in Egypt, General Secretariat for Local Management, March 2008.
- Providing sanitary landfill, treatment and transfer services for municipal solid waste for the Southern District of Cairo Governorate, Arab Bank, May 2008.
- Safe disposal and recycling methods for solid waste, August 2008.
- The economics of operating municipal solid waste recycling plants and compost production, January 2008.
- Project to Provide Treatment and Disposal of Municipal Solid Waste in Giza Governorate, March 2007.
- Integrated Management of Plant Waste in Egypt, Ministry of State for Environmental Affairs, May 2007.
- Integrated Management of Municipal Solid Waste Treatment and Disposal Projects, Giza

- Governorate, June 2007.
- Clean Development Mechanism Project for Municipal Solid Waste Treatment Plants and Converting it into Organic Fertilizer and Recovering Products in Egypt, Ministry of Local Development, General Secretariat for Local Administration, July 2007.
 - Municipal Solid Waste Sorting Factories and Compost Production as CDM Projects, July 2007.
 - Study to update the current status of the system of integrated solid waste management in Giza Governorate, Ministry of State for Environmental Affairs, November 2007.
 - Seminar on "Environmental Waste Between Wealth and Revolution," The Current Situation and Future Prospects for Solid Waste Management, Menoufia University, Institute of Environmental Studies and Research, December 2007.
 - Shubramant Factory Rehabilitation Project, 320 tons / day, Giza Governorate, December 2007.
 - Successful Experiences of the Clean Development Mechanism project, Clean Development Mechanism workshop, Cairo, July 2007.
 - Study on integrated waste management, treatment and disposal projects, Ajdabiya People's Committee, January 2007.
 - Additional Study on Problems of Solid Waste Collection and Transportation Operations and Suggested Solutions, Tartous, Syria, Technical Services Department, June 2007.
 - Outsourcing the establishment of a sorting, operating, maintenance, monitoring and control plant for the compost production plant (feasibility study), Al Ain Municipality, June 2007.
 - Technical Feasibility Study for Municipal Solid Waste Sorting and Recycling Project, Organic Compost Production, 500 tons / day, Republic of Yemen, July 2007.
 - Integrated Solid Waste Management in the Kingdom of Saudi Arabia, June 2006.
 - Integrated Solid Waste Management (Treatment and Disposal), Tripoli Municipality, March 2006.
 - Municipal Solid Waste to Peroni, December 2006.
 - The Current Situation of Municipal Solid Waste in the Arab Countries, Abu Dhabi Exhibition, December 2006.
 - Integrated Municipal Solid Waste Management, June 2006.
 - Municipal Solid Waste Sorting and Recycling Factory and Organic Fertilizer Production, 500 tons / day, Republic of Sri Lanka, February 2006.
 - The Current Situation and Future Prospects for Solid Waste Management in Egypt, The 10th Sardinia International Conference of Waste Management and Sanitary Landfilling, October 2005.
 - Municipal Waste Treatment and Disposal Strategies (Comparative Study), Malaysian Ministry of Foreign Exhibitions, February 2005.
- 3- Engineering and Technological development management:**
- Lagos Sanitary Burial Project, June 2010.
 - Design, construction and operation of (2) landfills for gas collection and integrated waste management plant, 900 tons / day, Lagos, June 2010.
 - Benefiting from Mixed Waste and Cairo: A Case Study / Cities Climate Leadership Group Workshop, April 2010.
 - Proposal to deal with solid waste in Egyptian villages, January 2009.

- The intermediate station, Ministry of State for Environmental Affairs, March 2009.
- Design, construction and operation of (2) landfill gas collection landfills and an integrated waste management plant (Lagos), May 2009.
- Providing sanitary landfill, treatment and transfer services for municipal solid waste in Menoufia Governorate, June 2009.
- Submission of a project for sanitary landfill, treatment and disposal of municipal solid waste in Luxor Governorate, June 2009.
- Cleaning Programs in Governorates and the Current Situation and Understanding the Proposed Situation, Ministry of Local Development, General Secretariat for Local Administration, February 2008.
- Sanitary Burial and Treatment Services for the Southern District of Cairo Governorate (May 15 Project), August 2007.
- Treatment and Burial Health Services in Bani Ghazi, Libya, General Services Company, December 2007.
- Commercial liberalization in the field of environmental services exchanged between Arab countries, Bani Ghazi Conference, 2004.

8- List of Publications

(a) International Journals

1. Tamer M. Ismaila, Kunio Yoshikawab, **Hisham Sherif**, M. Abd El-Salamd. "Hydrothermal treatment of municipal solid waste into coal in a commercial Plant: Numerical assessment of process parameters". Applied Energy 250 (2019) 653–664.
2. Mona A. Abdel-Fatah, **H. O. Sherif**, Fatma Agour, and S. I. Hawash "TEXTILE WASTE WATER TREATMENT BY CHEMICAL COAGULATION TECHNOLOGY" Global Journal of Advance Engineering Technology and Sciences. ISSN 2349-0292.
<https://www.researchgate.net/publication/287646194>
3. Mahmoud Abdel-Halim Abdel-Goad and **Hisham El-Shrief**. Reuse of Waste Plastic in the Modification of Rheological Characteristics of Bitumen. International Journal of Engineering and Information Systems (IJEAIS) ISSN: 2000-000X. Vol. 2 Issue 12, December – 2018, Pages: 31-35.
4. Mona A. Abdel-Fatah, **H. O. Sherif** , and S. I. Hawash. "Investigation on Wastewater Treatment of Maize Processing Effluent" International Journal of Scientific & Engineering Research, Volume 6, Issue 7, July-2015 ISSN 2229-5518.
5. Mona A. Abdel-Fatah , **H.O. Sherif** , S.I. Hawash. "Design parameters for waste effluent treatment unit from beverages production". Ain Shams Engineering Journal (2017) 8, 305–310.
6. Tamer M. Ismail, Kunio Yoshikawa, **Hisham Sherif**, Mohamed Salah and Shaimaa Saeed. Assessment of Thermal Treatment For Windrow Drying Process Of Refuse-Derived Fuel (Rdf): A Case Study. DETRITUS / Volume 05 - 2019 / pages 84-91. <https://doi.org/10.31025/2611-4135/2019.13781>

7. Tamer M. Ismail, Kunio Yoshikawa, **Hisham Sherif** and M. Abd El-Salam."Mathematical Modeling of Hydrothermal Treatment of MSW to form a Solid Fuel in a Commercial Scale Plant" Energy Procedia 158 (2019) 1757~1764. www.sciencedirect.com
8. Shaimaa Saeed, Ibrahim Ashour, **Hisham Sherif**, Mohamed R. O. Ali. "Catalytic and noncatalytic fast pyrolysis of Jatropha seeds: Experimental measurements and modeling" Egyptian Journal of Chemistry. EJCHEM-1911-2201 (R1) <https://ejchem.journals.ekb.eg>.
9. **H.O. Sherif**, "Solid Waste Management in Egypt Current Situation and Future Prospects" International waste working group, Sardinia 2005 Proceedings. www.tuhh.de/iue/iwwg/infos-materials/conference-proceedings/sardinia-2005.html.
10. **Sherif, H.O.**, Sherif, M.A.(2005) Utilization of Agricultural Residues Has an Environmental and Agricultural Necessity III – Production of Seed Bed Material from Sugar Cane Bagasse, in Press.
11. **Sherif, H.O.**, Sherif, M.A.(2005) Utilization of Agricultural Residues Has an Environmental and Agricultural Necessity IV- Production of Aqueous Extract (Compost Tea) from Banana / Sugar Beet Compost to Use as Organic Liquid Fertilizer, in Press.
12. Sherif ,H.O , Sherif, M.A(2005) Utilization of Agricultural Residues Has an Environmental and Agricultural Necessity V- Production of Acidic Liquid Fertilizer (Acidic Compost Tea) from Sugar Cane Bagasse Compost, in Press.
13. **Sherif ,H.O** , Sherif, M.A(2005) Utilization of Agricultural Residues Has an Environmental and Agricultural Necessity : VI – Production of Organic Acids in The Form of K-Hamate from Sugar Cane Bagasse Compost, in Press.
14. **Sherif, H.O.**, Sherif, M.A. (2005) Utilization of Agricultural Residues Has an Environmental and Agricultural Necessity : VII Improving Nutritional Value of Compost by Adding Some Natural Rocks Through Composting Process Accepted in The 15th International Conference , 10-19 Sept 2005 , China.
15. **Sherif, H.O.**, Safwat, M.S, M.A.Sherif (1997) "Using of Plant Technology for Treatment and Purification of Sewage Sludge. Arabic Report, Unpublished Data.
16. **Sherif, H.O.**, El Halwagy, M.M., Gaber, A.H., Safwat, M. S., El Sayed, S. A., El Said, B. A., (1996) "Food Industrial Waste Recycling: an Overview" Wastes Recycling Workshop, Academy of Scientific Research and Technology, Cairo, Egypt.
17. **Sherif, H.**, Fattah, S. A. (1996) "Alternatives for The Utilization of Date Processing Waste in Egypt" Unpublished.
18. **Sherif, H.**, Fattah, S. A. (1996) "Utilization of Residues and Wastes of Palms and Dates in Egypt" Unpublished.

19. **Sherif, H.O.**, Smith, P.G., El- Bassuoni, A.A., Gaber, A.H. and El- Ahwany, A.H (1995) "Low Cost Carrier for Anaerobic Fixed-Film Reactors " Paper Presented In the Second Middle East Conference on Waste Water Management, Cairo, Egypt.
20. **Sherif, H.O.**, Smith, P.G., El-Bassuoni A.A., Gaber, A.H. and El Ahwany A.H. (1995) " Biomass Assessment in Anaerobic Fixed-Film Reactor" Abstract for International Conference Workshop, Netherlands.
21. **Sherif, H.O.** (1994) "Treatment of Waste Water Using Anaerobic Biological Fillers", Ph.D. Thesis, Joint Supervision Between El-Minia University, Egypt, and Strathclyde University, Scotland, UK.
22. **Sherif, H.O.**, Smith, P.G., El-Bassuoni, A.A., Gaber, A.H. (1993) "Low Cost Carrier for Anaerobic Fixed Film Reactors Suitable for Rural Communities" International Conference for Bio-Film Reactors, Paris.
23. **Sherif, H.O.** (1989) "Egyptian Village Waste Treatment Design of Appropriate Solutions". M.Sc. Thesis, El-Minia University Chemical Engineering Dept., Faculty of Engineering.

(b) Books/Book Chapters

- ٩- دليل صناعة الأسمدة العضوية بين الأسس العلمية والتطبيقات العملية ، محمد احمد شريف ، هشام عمر شريف ، دار النشر للجامعات ٢٠١٨ .