

MINERVA EDWARD MATTA

Name: MINERVA
Last Name: E. MATTA
Profession: Engineer, Water/wastewater and Environmental Studies
Present Employer: Cairo University, Faculty of Engineering
Nationality: Egyptian
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Key Qualifications

- **Twenty years of experience in Design of water, wastewater pipe networks, treatment projects, and their execution.**
- **Involved in the design, and preparation of tender documents of wastewater and water pipe networks and treatment plants.**
- **Has knowledge of computer applications for water/wastewater systems design.**
- **Member of the Egyptian Engineers Syndicate.**

Education

Ph. D. Civil/ Sanitary Engineering “Wastewater Treatment using Algal Bacterial Reactor”, Cairo University, 2005.
M.Sc. Civil/Sanitary Engineering “Performance of Bio-Towers in Organic Matter Removal and Nitrification of Wastewater” Cairo University, 2002.
B.Sc. Civil Engineering, Cairo University, 1998.

Thanaweya Amma College Du Sacre Coeur – Le Caire

Experience Record

1998 - Present: Associate Professor, Faculty of Engineering, Cairo University.

2005 –2006 Water/Wastewater Engineer, Egyptian Group for Engineering Consultation (EGEC)

- Design services for the rehabilitation of water/wastewater systems in Greater Cairo, and Sharm el Sheikh.
- Design of water/ wastewater pipe networks in El Herafeeyen city, Giza Governorate.
- Hydraulic simulation of potable water pipe networks in South and West Cairo and Preparation of the 2022 Master Plan of the area.
- Preparation of tender documents
- On site wastewater sanitation system for 5 villages in Sohag Governorate
- Design of Sewer network, potable water network, and WWTP for El-Herafeeyen City-Giza Governorate.

2003-2005 Water/Wastewater Engineer, A&A Design Office.

Participated in the following activities:

- Design of Wastewater piping networks and treatment plants of the villages of El Emam Malek, Tarek ibn Zeyad, El Rowad and El Radwan- World bank and Ministry of Agriculture.
- Preparation of tender documents

2000-2003 Water/Wastewater Engineer, Misr Olia for General Contracting.

Participated in the following activities:

Supervising of water/wasterwater, construction projects in Cairo, and Ras Sedr,
Design and Supervision of Elsafa Tourist Village, North Western Cost.

1998-2000 Water/Wastewater Engineer, Misr Consult Office (Prof. Dr. Sameh Abdel Gawad).

Participated in the following activities:

- Design of Water, Sewage, and Overflow Networks of El Sheikh Zayed Water Treatment Plant.
- Design of water/wastewater networks, and internal plumbing of several residential compounds, and tourist villages in Cairo and Hurgada.

Languages

Arabic: Native language

English: Fluent

French: Fluent

Computer Skills

Microsoft Office (Excel, Word, Power Point,...): Excellent.

AutoCAD: Excellent.

Water Cad: Excellent

Additional Diplomas:

1992:“Alliance Française “: Diploma in French Language

1992: “Certificat Pratique de Français des Professions Scientifiques et Techniques de la Chambre de Commerce et d’Industrie de Paris”

1991:“Certificat Pratique de Français du Tourisme et de l’Hotellerie de la Chambre de Commerce et d’Industrie de Paris”

SOCIETIES AFFILIATION

Member of Egyptian Engineers Syndicate since 1998.

Member of Egyptian Environmental Engineering Society.

Assistant Editor of the “Journal of Engineering and Applied Sciences”, Faculty of Engineering, Cairo University.

PUBLISHED RESEARCHES

1. Saad A. Bakry, *Minerva E. Matta*, and Khaled Zaher, “Electrocoagulation Process Performance in Removal of TOC, TDS, and Turbidity from Surface Water”, *Desalination and Water Treatment*, 129, pp. 127-138., 2018.
[DOI: 10.5004/dwt.2018.23070](https://doi.org/10.5004/dwt.2018.23070)
2. Safwat M. Safwat, and *Minerva E. Matta*, “Adsorption of Urea onto Granular Activated Alumina: A Comparative Study with Granular Activated Carbon”, *Journal of Dispersion Science and Technology*, 2018, DOI: [10.1080/01932691.2018.1461644](https://doi.org/10.1080/01932691.2018.1461644)
3. Abdelsalam Elawwad, Mohamed Abo-Zaid, and *Minerva Edward*, “Plant-Wide Simulation for a Mega WWTP: A Case Study of Gabal El-Asfar WWTP, Egypt”, *Proceedings of the International Conference of Recent Trends in Environmental Science and Engineering (RTESE'17) Toronto, Canada – August 23 – 25, 2017* Paper No. 139 DOI: [10.11159/rtese17.139](https://doi.org/10.11159/rtese17.139)
4. Adel Fayez Gaid, *Minerva Edward* , Heba Abdallah and Khaled Zaher Abdallah “The Effect of Operating Conditions on the Performance of a Vacuum Membrane Distillation Unit Using PES Flat sheet Membrane” *Civil and Environmental Research*, Vol 8., No.1, pp 89-99, 2016.
5. R. O. Mahmoud, *M. E. Matta*, and E. A. Rashed, “The Effect of Media Depth & Retention Time on The Performance of Anaerobic Hybrid Reactor”, *Journal of Engineering and Applied Science*, Vol. 61, No.4 pp. 335-350, 2015.
6. Khaled M. Naguib, Maha M. Elshafei, *Minerva E. Matta*, Ehab A. Rashed, M. A.Hiekl, “On-line Dosing of Ammonium Bifluoride for the Reduction of Silica

- Scaling on RO Membranes”, HBRC Journal, Vol12, No.2, pp.205-211, 2016.
[DOI: 10.1016/j.hbrcj.2014.10.001](https://doi.org/10.1016/j.hbrcj.2014.10.001).
7. A. I. Esmael, Minerva E. Matta, H. A. Halim, F. M. Abdel Azziz, “Adsorption of Heavy Metals from Industrial Wastewater using Palm Date Pits as Low Cost Adsorbent”, International Journal of Engineering and Applied Technology (IJEAT), Vol.3, No. 5, 2013.
 8. Nagwan G. Mostafa, *Minerva E. Matta*, and Hisham A. Halim, “Simulation Of Chlorine Decay In Water Distribution Networks Using WATERCAD – Case Study”, Journal of Engineering and Applied Science, Vol.60, No.1 , pp. 25-42, 2013.
 9. Nagwan G. Mostafa, *Minerva E. Matta*, and Hisham A. Halim, “Simulation of Chlorine Decay in Water Distribution Networks Using EPANET – Case Study”, Civil and Environmental Research, Vol.3, No.13, pp. 100-116, 2013.
 10. N. A. El Hattab, H.A. Halim, M.E. Matta, “Performance of IFAS Using Dispersed Media in Organic Matter Removal And Nitrification of Wastewater”, Journal of Engineering and Applied Science, Vol.58 , No.6, pp. 459-477, 2011.
 11. Ihab. M. Rashed, E.A.S. Hasaneen, *M. Edward* and E.A. Dwagi, “Environmental Management System as a Tool for Improving the Environmental Performance (Case Study)”, Journal of Applied Science Research, 4(4), pp.383-390, 2008.
 12. M. E. Matta, E.A.S. Hassanein, H.S.A.Halim, and G.Hussein “Wastewater Treatment Using Algal Bacterial Reactor” Journal of Engineering and Applied Science, Vol.53, No.2, April 2006.

THESES SUPERVISED

1. “Environmental management system as a tool for improving the environmental performance (case study)” .Master thesis by E.A Dwagim, 2007.
2. “Performance of IFAS systems using dispersed media in organic matter removal and nitrification of wastewater in Egypt” Master thesis by N. A. El Hattab, 2010.
3. “Simulation of Chlorine Decay in Water Distribution Networks Using WATERCAD & EPANET- Case Study”, Master thesis by N.G. Mostafa, 2011.
4. “Effect of Media Depth & Hydraulic Retention Time on Anaerobic HYBRID Reactor (AHR) Performance”, Master thesis by R. O. Mohamed, 2012.
5. "Adsorption of the Heavy Metals from Industrial Wastewater Using Palm Date Pits as Low Cost Adsorbent”, Master thesis by A.I. Ismael, 2013.
6. "Using ABF as on-line dosing for Reduction of Silica Scaling on RO Membranes" Ph.D. thesis By Khaled Mohamed Naguib Mohamed, 2014.
7. “Plant-Wide Modeling for Gabal El Asfar Wastewater Treatment Plant “Contract 19” Optimization”, Master thesis by M. S. Shawki Abo-Zaid, 2018.
8. “Electrocoagulation Technique in Surface Water Treatment Using Aluminium and Iron Electrodes”, Master thesis by, 2018.