

**General**

**Name** Mohamed Elsayed Ali **BASIOUNY**

**Date of Birth** 3 July 1958

**Nationality** Egyptian

**Languages** Arabic – English - Russian

**Profession** Sanitary Eng. Expert – Consulting Civil Engineer No. 2457/1

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**Academic and Professional Attainment**

**1988 – 1992** **Ph.D – Civil/Environmental Engineering**  
Moscow Civil Engineering Institute, Moscow USSR.  
"Treatment of Low-turbidity High Color Content Water"

**1983 – 1987** **M.Sc. – Civil Engineering**  
Ain Shams University, Cairo, Egypt.  
"Treatment of Industrial Wastewater"

**1976 – 1981** **B.Sc. – Civil Engineering**  
Ain Shams University, Cairo, Egypt.

**Membership in Professional Organization**

Egyptian Syndicate of Professional Engineers, No.2457/1  
Engineering Sector Committee, Egyptian Supreme Council of Universities.

**Academic Experience**

**Title** **Dean, Benha Faculty of Engineering since Feb. 2012 till now.**  
**Full Professor, Sanitary Engineering & Environmental since 2008.**  
Assistant Professor, Sanitary Engineering & Environmental, from 2001 to 2008.

**1994 – Present** Benha High Institute of Technology, Benha University, Egypt  
Now, Benha Faculty of Engineering.

**1982 – 1994** Zagazig University, Zagazig, Egypt

**Courses**

- **Water Supply Engineering**
- **Sewerage**
- **Advanced Sanitation**
- **Modeling of Water & Wastewater Networks**
- **Water Supply and Treatment**
- **Wastewater Collection and Treatment**

- **Water Treatment**
- **Wastewater Treatment**
- **Sewage Sludge Treatment**
- **Industrial Wastewater Treatment**
- **Pollution and Environmental**

## **Publications**

- 1- M. Basiouny  
“Treatment of Industrial Wastewater (Poultry Automatic Slaughter House Wastes)”  
M. Sc. Dissertation, Dept. of Civil Engineering, Faculty of Engineering, Ain Shams University, Cairo, Egypt, January 1987
- 2- M. Basiouny  
“Treatment of Low-Turbidity High Content of Algae Waters”  
PhD. Dissertation, Dept. of Civil Engineering, Moscow Civil Engineering Institute, Moscow USSR, July 1992
- 3- M. Basiouny  
“Reasons of Water Pollution in Branches Canals in Kalubia Governorate”  
Al-Azhar Scientific Fifth International Engineering Conference, Cairo, Egypt, December 19 – 22, 1997, Vol. 5, pp. 291 - 302.
- 4- M. Basiouny, and H. El-Atrby  
“Modeling Residual Free Chlorine in Water Distribution Systems”  
Mansoura Engineering Journal, Faculty of Engineering, Mansoura University, Egypt, Vol. 25 No. 1, March 2000, pp. 1 –13.
- 5- M. Basiouny  
“APT for Upgrading Benha Wastewater Treatment Plants”  
Scientific Bulletin, Faculty of Engineering, Ain Shams University, Cairo, Egypt, Vol. 35, No. 1, March 2000, pp. 59 – 67.
- 6- M. Basiouny  
“Reliability Analysis of Water Distribution System”  
Third Mansoura International Engineering Conference, Faculty of Engineering, Mansoura University, Egypt. April 11 - 13, 2000, Vol. 1 pp. 297 - 309.
- 7- M. Basiouny, M. Negm, and M. Abdel-Razik  
“Modeling and Reliability of Water Distribution Network”  
Journal of Engineering and Applied Science, Faculty of Engineering, Cairo University, Egypt, Vol. 47, No. 3, June 2000, pp. 503-517.
- 8- M. Basiouny, and M. Abdel Razik  
“Studying the Effect of Storage on Water Quality by Using Computer Models”  
Journal of Engineering Researches, Faculty of Engineering, Helwan University, Vol. 71, October 2000 pp. 88 - 101.
- 9- M. Basiouny, and H. El-Atrby  
“Analysis of Water Distribution Network Performance by Penalty Curve”  
Journal of Engineering, Faculty of Engineering, Alexandria University, Vol. 40, No. 2 March 2001 pp. 265 - 276.
- 10- A. Easa, and M. Basiouny  
“Effect of Wastewater Seepage on Engineering Properties of Clayey Soil”  
The Fourth International Military Technical Conference, Military Technical College, Cairo, Egypt, Vol. 2, October 2002 pp.188 - 197.
- 11- M. Basiouny

- “Enhanced Aluminum Coagulation for NOM Removal from Low Turbidity Waters”  
1<sup>st</sup> International Conference of Civil Engineering Science, ICCES1, Assuite, Egypt,  
Vol.1, No. 2.
- 12- M. Basiouny, and A. Easa  
“Analysis of Reasons for Sewer Manholes Collapse by Extended Period Simulation”  
Mansoura 4th International Engineering Conference, Faculty of Engineering,  
Mansoura University, Egypt. April 11 - 13, 2004, Vol. 1, pp. 297 - 309.
- 13- M. Basiouny  
“Assessing the Effect of Storage Tanks on Drinking Water Quality, A Case Study”  
Scientific Bulletin, Faculty of Engineering, Ain Shams University, Cairo, Egypt,  
Vol. 41, No. 4, December 2006 pp. 181 –194.
- 14- Abdel-Razik, M. H., Basiouny M. and Nassar, A.  
“Impact of Treated Wastewater Reuse on Ground Water”  
Scientific Bulletin, Faculty of Engineering, Ain Shams University, Cairo, Egypt,  
Vol. 42, No. 2, June 2007
- 15- M. Basiouny, T. Elmitwalli and M. R. Ghazy  
“Modeling of Trihalomethanes in Benha Water Supply Network”  
Scientific Journal, Faculty of Engineering, Mansoura University, Egypt, December  
2007, Vol. 4 pp. 1-13.
- 16- M. Basiouny, T. Elmitwalli and M. R. Ghazy  
“Formulation and Modeling of Trihalomethanes in New Benha Water Treatment  
Plant”  
The Twelfth International Water Technology Conference IWTC 2008, 27-30<sup>th</sup> March,  
Alexandria, Egypt, Vol. I pp. 121-140.
- 17- M. Basiouny, T. Elmitwalli and M. R. Ghazy  
“Modeling of Trihalomethanes in Benha Water Supply Network, Egypt”  
The Twelfth International Water Technology Conference IWTC 2008, 27-30<sup>th</sup> March,  
Alexandria, Egypt, Vol. II pp. 991-1004.
- 18- M. Basiouny, E. A. Fouad, T. Elmitwalli and N. Y. Abu-Elkhair  
“Enhancing Purification of Surface Water by Potassium Permanganate Addition”  
The Twelfth International Water Technology Conference IWTC 2008, 27-30<sup>th</sup> March,  
Alexandria, Egypt, Vol. II pp. 979-991.
- 19- M. Basiouny, and M. A. Elsheikh.  
“Deposition and Formation of THMs in Benha Water Distribution System”  
6th International Engineering Conference, Faculty of Engineering – Mansoura  
University, Mansoura/Sharm El-Sheikh, 20 – 23 March 2008.
- 20- M. Basiouny, and M. A. Elsheikh.  
“Deposition and Formation of THMs in Water Supply System”  
Sustainable Environment Research, Journal of Environ. Eng. Manage. Vol. 21, No.2,  
pp. 89-94 (2011).
- 21- M. Basiouny, M. A. Elsheikh, and Osama A Abu Siadah.  
“Effect of Different Pipe Materials on Microbiological Water Quality Due to Biofilm  
Formation: a Case Study”  
Sixteenth International Water Technology Conference, IWTC 16 2012, Istanbul,  
Turkey.

### **Examination of Thesis in Egyptian Universities (MSc., PhDs)**

1. "Studying of Disinfection By-Product in Benha Water Supply System", MSc Thesis, Benha High Institute of Technology, Benha, Egypt, February, 2006.
2. "Effectiveness of Potassium Permanganate in enhancing Water Coagulation", MSc Thesis, Benha High Institute of Technology, Benha, Egypt, May, 2006.
3. "Study of Water Quality and Biofilm Formation in Water Distribution System" MSc Thesis, Benha Faculty of Engineering, Benha, Egypt, Aug., 2011.
4. "The Use of Roughing Filters in Water Purification", MSc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, November, 2011.
5. "Environmental Impact Assessment for Multi Effect Distillation Water Plants", MSc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, May, 2012.
6. "Treatment of Painting Industry Wastewater", MSc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, August, 2012.
7. "Optimization of Stabilization Pond Design due to Egyptian Conditions", M. Sc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, December, 2012.
8. "Application of Agricultural Wastes for Wastewater Treatment", PhD Thesis, Faculty of Engineering, Helwan University, Cairo, Egypt, February, 2013.
9. "A Comparative Study for Sewage Treatment Methods in Gassim Area Kingdom of Saudi Arabia", PhD Thesis, Faculty of Engineering, Alexandria University, Alexandria, Egypt, April, 2013.
10. "Water Treatment for Boilers Needs, MSc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, June, 2013.
11. "Anaerobic Sludge Digester Performance Improvement by Adding Organic Municipal Solid Wastes", MSc Thesis, Faculty of Engineering, Ain Shams University, Cairo, Egypt, November, 2013.

### **Professional Experience**

<b>Employer</b>	<b>Engineering &amp; Technical Services Office (ETS) Consulting Engineers, Dammam, Saudi Arabia.</b>
<b>2010, 2008</b>	<b>Water Supply and Sewerage System of Eight Governorates (Contract #2), Riyadh, KSA.</b> Feasibility Study and Preliminary & Detailed design of the water supply and sewerage facilities for six Governorates (El_Dawadmy, El_Magmaa, El_Zilfi, El_Ghat, Afif, and Shaqraa) in the north of Riyadh Region.
<b>2008, 2007</b>	<b>Water Supply and Sewerage System of Eight Governorates (Contract #3), Riyadh, KSA.</b> Feasibility Study and Preliminary & Detailed design of the water supply and sewerage facilities for seven Governorates (El_Quwiaia, El_Mzahmia, Horaymelaa, Thadeq, Durmaa, Rumah) a in the north west of Riyadh Region.

<b>Employer</b>	<b>Engineering &amp; Technical Services Office (ETS) Consulting Engineers, Dammam, Saudi Arabia.</b>
<b>2006</b>	<b>Buraydah Water Supply Project, Buraydah, Al-Qassim, KSA.</b> Design and upgrading of water distribution networks of Buraydah city, Detailed design and tender documents of water supply works to upgrade the existing transmission, storage and distribution facilities to serve Buraydah up to the boundaries of urban planning Stage II .The design included hydraulic simulation of Buraydah water networks using the WaterCAD Software.
<b>2005</b>	<b>Buraydah Sewerage System Project, Buraydah, Al-Qassim, KSA.</b> Design the sewerage system of Buraydah City, with future population of 800,000 capita; comprising wastewater collection networks, pumping stations, force mains and treatment works using oxidation ditches. The design included hydraulic simulation of Buraydah sewer system using the SewerCAD Software.
<b>Employer</b>	<b>Sabbour Associates, Consulting Engineers, Cairo, Egypt</b>
<b>2004</b>	<b>Water Supply and Sanitation of Three Towns, Uganda</b> Feasibility Study, preliminary design and Detailed design of the water supply and sanitation facilities for three small towns in the north east of Uganda, namely :Soroti, Sironko and Kaberamido.
<b>2003</b>	<b>New Misr Pharmaceutical Plant, Abu Zaabal, Egypt.</b> Design Water Fire Fighting and Industrial Wastewater Treatment Plant (625 m <sup>3</sup> /day) for New Misr Pharmaceutical Plant. Abu Zaabal, Egypt.
<b>Employer</b>	<b>Faculty of Engineering Consultation Unit, Benha University, Benha, Egypt</b>
<b>2012</b>	<b>Faculty of Computers and Informatics Building at Benha University, Egypt.</b> Preliminary and Detailed design of Plumbing Sanitation for the building.
<b>2003</b>	<b>Alshrouq Industrial Region in Elkhanka, Kalubia, Egypt.</b> Preliminary design and Detailed design of Sewer System and Industrial Wastewater Treatment Plant, 1400 m <sup>3</sup> /day (for New Industrial Region) Alshrouq. Elkhanka, Kalubia, Egypt.
<b>2003</b>	<b>Alssfa Industrial Region in Werash Abu Zaabal, Kalubia, Egypt.</b> Preliminary design and Detailed design of Sewer System and Industrial Wastewater Treatment Plant (1330 m <sup>3</sup> /day) for New Industrial Region Alssfa . Werash Abu Zaabal, Kalubia, Egypt.

**2002 Sewerage Systems of 3 Villages, Kalubia Egypt**  
Design of sewerage networks, pump stations and sewage treatment plants of three villages all over Kalubia namely: Namol Senhera, and Kom-ashfeen. The villages vary in population from 50,000 to 100,000 capita .Different wastewater treatment systems were proposed such as conventional activated sludge, aerated lagoons, and stabilization ponds depending on environmental conditions.

**2001 Practical Qualification Center Project at Shobra El -khima, Egypt.**  
Final design of water, fire fighting, irrigation and sewerage networks.

**2000 Training building at Benha High Institute of Technology, Egypt.**  
Preliminary design and Detailed design of Plumbing Sanitation for the building.

**Employer Senior Consulting Engineers, Cairo, Egypt**

*Institute of International Education, Development Training II A USAID Services Program /SENIOR Consultancy Engineers.*

**2002 Water Treatment) Operating & Maintenance (Training Course in Kafr El-Sheikh**  
Comprehensive Water Treatment (Operating & Maintenance) course was prepared and presented to a group of engineers in Kafr El-Sheikh over a 4-days period in April, 2002.

**2002 Design of Water and Wastewater Works Training Course**  
Design of Water and Wastewater Works, Training Program No. 826, October 2002, in Beni Sueif Gov., and El-Fayoum Gov.

**Employer Chemonics International/Chemonics Egypt, Cairo, Egypt**

**2002 El-Mansoura Wastewater Treatment Plant Technical Report**  
Preparing Technical report on Wastewater treatment plant in El-Mansoura City, Aug. 2002, submitted to USAID.

**2002 Sludge Handling, Treatment, and Disposal Training Course**  
Course was presented to a group of engineers over a 5-days period, June 2002, in El-Menya Gov., Beni Sueif Gov., and El-Fayoum Gov.

**2002 Planning & Design of Water Distribution System Training Course in El-Mansoura**  
Course was prepared and presented to a group of engineers in El-Mansoura over a 4-days period in January, 2002.

- 2001, 2004**      **Planning & Design of Sewer System Training Course in El-Mansoura**  
Course was prepared and presented to a group of engineers in El-Mansoura over a 4-days period in May, 2001.

**Employer**      **Central Department for Training, Cairo Training Center, National Organization for Potable Water & Sanitation, Cairo, Egypt.**

- 2004**      **Design of Wastewater Treatment Plants and Sludge Treatment.**  
Participated, Developing training manuals and providing training courses, September 2004, in Cairo.
- 2003**      **Design of Wastewater Treatment Plants.**  
Participated, Developing training manuals and providing training courses, September 2003, in Cairo.
- 2002**      **Technology of Wastewater Treatment in Egyptian Cities and Villages.**  
Participated, Developing training manuals and providing training courses, September 2002, in Cairo.

**Employer**      **Training Program -Ecoman, (Consultants & Training) in Dubai, UAE.**

- 2012**      **Best Practice in Sewage and Effluent Treatment Technologies: Processes, Theory, Maintenance, Operation and Troubleshooting, Training Course**  
Comprehensive was prepared and presented to a group of all over world engineers from KSA, from Qatar, from 11<sup>th</sup> to 15<sup>th</sup> Nov. 2012.
- 2011**      **Best Practice in Sewage and Effluent Treatment Technologies: Processes, Theory, Maintenance, Operation and Troubleshooting, Training Course**  
Comprehensive was prepared and presented to a group of all over world engineers from Emirate, from Qatar from 25<sup>th</sup> to 30<sup>th</sup> June 2011.
- 2005**      **Designing and Analyzing Water Network Using Computer Application.**  
Instruct & Develop training manuals and providing training courses, November 2005, in Dubai, UAE.
- 2005**      **WaterCAD Training Course**  
Comprehensive WaterCAD course was prepared and presented to a group of all over world engineers) from Emirate, from Qatar (over a 5-days period), from 24<sup>th</sup> to 28<sup>th</sup> September 2005. The course covered the basic and advanced features of WaterCAD V5.0 .

**Employer**      **MAS for Engineering Consultation, Benha, Egypt.**

- 2002**      **Mamlakete Newara Residence Compound, El-Fayom, Egypt.**  
Design of water and sewerage networks for Hayat Residence Compound at El-Shorok City.

- 2001 Foka Residence Compound, Matrouh, Egypt**  
Preliminary design of water, fire fighting, irrigation and sewerage networks serving a residential compound of Foka Residence Compound at Matrouh Cost.
- 1997 Al-Safa Hospital Project at Tanta city, Egypt.**  
Preliminary design and Detailed design of Plumbing Sanitation for the buildings.
- 1997 Kafr Al-walga Youth Center Project at Kalubia, Egypt.**  
Preliminary design and Detailed design of Plumbing Sanitation for the building.
- 1995 Al-Zhraa tower at Tanta city, Egypt.**  
Preliminary design and Detailed design of Plumbing Sanitation for the buildings.

**Employer** **Development Research and Technical Planning Centre (DRTPC), Zagazig University.**

- 1992 - 1994 Miscellaneous Projects**  
As a team member typical assignments covered planning of water and wastewater schemes including evaluations of the existing situation and alternatives for future extensions in many governorates, Sharqiea, Kalubia, Port Said, Suez and North Sinai.
- :Participated in the following activities
- Design of the Benha water distribution system rehabilitation.
  - Computer hydraulic analysis and design of the proposed and existing systems.
  - Preparation of MTO's and cost estimates for different materials and equipment.
  - Preparation of complete tender documents.
  - Monitoring and preparation of progress reports for construction.