

# Neama Ahmed Sobhy Ahmed Reiad

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**Marital Status** Married

**Nationality** Egyptian

**Religion** Moslem

**Academic Qualification**

- **Ph.D in Chemical Engineering**, 2013, Cairo University, Faculty of Engineering, Chemical Engineering Department, Egypt. The thesis entitled: "Synthesis and Characterization of Chitosan Membranes Loaded With Silver Nanoparticles and Their Water Treatment Applications".
- **MSc. in Science**, 2009, Cairo University, Faculty of Engineering, Chemical Engineering Department, Egypt. The thesis entitled: "A Study on Adsorption Characteristics of Heavy Metals from Wastewater by Low Cost Adsorbents".
- **BSc. in Chemical Engineering**, 1995, Cairo University, Chemical Engineering Department.

**Other Qualification**

- **License from Ministry of Health** for the use of ionizing radiation in research purposes and scientific applications of radioactive isotopes at Housing & Building National Research Center in 17/2/2011.
- **TOEFL Certificate** from Ain Shams University - General Public Center in October 2009.
- **Diploma in Programming** in Visual Basic, Access, and C/C++ from **IBM Institute** in 2003.

**Computer Courses**

- Training course in web design in IBI institute in 2011.
- Training course in statistical Analysis with SPSS program in Cairo University, 2010.
- Training course in Autocad 2D , 3D in Cairo University, 2002.
- Training course in winword, excel, power point, internet, photoshop from IBI institute in 2000 with excellent real experience in the above mentioned programs.

## Language

- Arabic (mother tongue)
- English (Excellent)
- French (Good)

## Work Experience

**3/2010 till now Housing & Building National Research Center** El Tahrir st., Cairo,  
Housing & Building National Research is a research center include nine different institutes.

### *Employment Record:*

Chemical Engineer from 3/2010 to 9/2012.

Assistant Lecturer from 9/2012 to 12/2013.

Lecturer from 1/2014 to 4/2019

Assistant professor from 5/2019 till now

Position: Assistant professor in Sanitary & Environmental Engineering Institute, Chemistry Lab  
For Sanitary & Drinking Water.

- Performing atomic absorption spectrophotometer (AAS) analysis for heavy metals in water.
- Performing all chemical analysis for different types of soils and ground water according to the ASTM, ESS & BS.
- Performing all chemical analysis for all types of building raw materials (clay, sand, limestone, dolomite ....., etc.)
- Performing chemical analysis for different types of potable water and sewage water according to the Egyptian and International Specifications.
- Performing chemical analysis of porcelain enameled cast iron for sanitary ware, glass planting resistance of the plumbing fixtures, acid resisting bricks for lining sewerage tunnels, concrete and plastic pipes, different insulating materials.
- Making training programs for under graduate students on chemical analysis of different types of soils and ground water according to the ASTM, ESS, BS, and Chemical analyses for different types of potable water and sewage water according to the Egyptian and International Specifications.
- Participation in preparation technical reports for national projects.
- Study and evaluation of tenders, and participation in technical committees to evaluate bids and tenders for the purchase of different laboratory equipments.
- Synthesis of polymer membranes loaded with silver nanoparticles by chemical reduction.

## Responsibilities

2009 – 2010 **Yasmo Misr Company** El Sawah, Cairo  
Yasmo Misr Company worked in the field of production of construction materials.

Position : Quality Assurance specialist

- Reviewing the brochures and catalogues of the company products.

- Responsibilities
- Developing technical solutions for clients.
  - Follow up with client post sales to ensure on-going business.
  - Arrangement for the conferences and exhibitions and designing a suitable presentation Programs for it.

2003 – 2006                      **Hanna Instruments Company**                      Makram Ebid St., Cairo  
Hanna Instruments company worked in the field of instrumentation, Dosing Pumps, on-line pH meters, TDS meters, Dissolved Oxygen Meters,....., etc.

Position : Technical Support Engineer

- Responsibilities
- Making the technical trainee program on operating and maintaining instruments for our customers and clients.
  - Developing technical solutions for our clients.
  - Follow up with client post sales to ensure satisfaction and on-going business.
  - Develop a sales strategy for the company.
  - Arrangement for the conferences and exhibitions and designing a suitable presentation programs.

2000 – 2003                      **Scientific Medical Equipment Company**                      Beirut St., Cairo  
Scientific Medical Equipment Company is a company specialized in the supply of medical equipments as ultrasound, X-ray, neurological equipments and dental units.

Position : Assistant Marketing Manager

- Responsibilities
- Preparing offers, tenders, turnkey tenders, making the standard offers for the equipments, preparing the offers for surgical instruments.
  - Making follow up with customers, making the sales reports and the sales analysis of the sales representatives in both special sectors and public sectors.
  - Arrangement of the conferences and exhibitions and designing a suitable presentation programs for it.
  - Making the contracts of the sales and maintenance contracts of the equipments.
  - Purchasing the local equipments as computers, laptops, aprons, x-ray cassettes, video printers, which were delivered with the medical equipments.

1998 – 2000                      **BIC factory**                      Maarouf St., Cairo  
BIC Factory is specialized in producing solar photovoltaic modules and supplying complete solar systems for different applications such as military purposes, advertising,... etc.

Position : Senior Sales Engineer

- Responsibilities
- Making computer program for designing complete solar systems for different uses.
  - Preparing offers and making follow up with customers.

- Marketing the PV modules and complete solar systems.

### Research Interest

Polymer Synthesis and Characterization; Antimicrobial polymers; Drug delivery and controlled Release; Electro spinning, Biodegradable polymers.

### Reviewer of Journals

- 1- Chemical Engineering Journal.
- 2- Desalination Water Treatment Journal.
- 3- Fibers and Polymers Journal.
- 4- Journal of Toxicology and Environmental Health Sciences.
- 5- Time Journals.

### Workshops & Training Courses

- Training course on “Risk Assessment” Organized by Arab Safety Academy and held online in 31 March 2022.
- Training course on “Total Quality Management” “TQM” Organized by Arab Safety Academy and held online in 10 March 2022.
- Training course on “Future studies for Egypt’s vision 2030 and future foresight in the light of pioneering projects” Organized by TICO offices in HBRC and held in Housing & Building National Research Center from 8 Nov. to 10 Nov. 2021.
- Training course on “Intellectual property and patents” Organized by TICO offices in HBRC and held in Housing & Building National Research Center in 14 Oct. 2020.
- Training course on “Marketing mechanisms and a presentation of real success stories for existing companies” Organized by TICO offices in HBRC and held in Housing & Building National Research Center” in 12 Oct. 2020.
- Training course on “How to apply for research projects and international cooperation” Organized by TICO offices in HBRC and held in Housing & Building National Research Center from 4 Oct. to 5 Oct. 2020.
- Training course on “Technology transfer and marketing” Organized by TICO offices in HBRC and held in Housing & Building National Research Center from 28 Sep. to 29 Sep. 2020.
- Training course on “Waste water treatment course” Organized by water treatment experts forum, in accordance with pure water company in 4 sep. 2020.
- Workshop on “Resilient cities: proactive resilience for Arab and African cities, organized by HBRC & Metropolis, held in Housing & Building National Research Center from 30<sup>th</sup> sep. to 2<sup>nd</sup> Oct. 2019.
- Training course on “Preparing consultants in the field of environmental projects evaluation” organized and held in Center for Studies and Scientific Consultations, Faculty of Science, Ain shams university in (3-5) march 2019.
- Training course and workshop on "Introduction to Nanotechnology", Nanotech Company for Photo Electronics, Cairo, April, 2011.
- Training course on "Operating and maintenance of GC chromatography device for measuring pesticides in wastewater", Housing & Building National Research Center, 2010.
- Training course and workshop on "Radiation Protection", National Institute for Standards "NIS", Cairo, September, 2010.

- Training course on "Estimation of uncertainty in measurements results and statistically process control", Housing & Building National Research Center, May, 2010.
- Training course on the requirements of ISO/IEC 17025 and internal audit, Housing & Building National Research Center, April, 2010.
- Training course on "Egyptian code for the reuse of treated sewage water", Housing & Building National Research Center, April, 2009.
- Training course in Hanna Instruments Company on the maintenance and operation of the instrumentation meters, as dosing pumps, on-line pH meters, TDS meters, D.O. meters, temperature loggers, and transmitters ...etc., June 2003.

#### Conference Attendance

- International Conference, "Scientific Research Between the Fact and the Imagination", Nanotech Company for Photo Electronics, Cairo, Egypt, December 2010.
- International Conference, "Towards Low Cost Housing", Cairo, Egypt, May 29-30, 2007.
- International Conference & Workshop, "Innovations in Materials and Design Of Civil Infrastructure", Housing & Building National Research Center, Cairo, Egypt, 28-29 December, 2005.
- The International Conference & Exhibition for Water Technologies, "Aquatec", Cairo, 2004.

#### Teaching Experience

Teach courses of "Food Engineering" and "Physical Properties of Food" in the faculty of agriculture – Cairo University in 2015-2016.

#### Membership of Societies

- Egyptian Society of Engineers.
- Egyptian Society of Chemical Engineers.

#### List of Publications

- Hussein Ahmed, Mohamed El-Khateeb, **Neama Ahmed** "Effective Granular Activated Carbon for Grey water Treatment Prepared from Corncobs" Egyptian Journal of Chemistry, In Press.  
**doi:** 10.21608/EJCHEM.2022.117621.5302.
- Mohamed A. El-Khateeb, Hussein M. Ahmed, **Neama A. Sobhy** " Recycling of waste chicken bones for grey water pollutants removal", Desalination and Water Treatment, (2022) 1–10.  
**doi:** 10.5004/dwt.2022.28609
- **Neama Ahmed Sobhy Ahmed**, Nouran Yousry Mohamed "Using Natural Coagulants for Reduction of Turbidity of Water", International Research Journal of Engineering and Technology (IRJET), Volume: 08 Issue: 05, May 2021.
- **Neama Ahmed Sobhy Ahmed**, M. L. Abdel-Latif, Samah Adel Sanad, Samah Abdel Razik Mohammed "Utilization of industrial granitic waste as adsorbent for phosphate ions from wastewater", International Journal of Scientific & Engineering Research, Volume 11, Issue 10, October 2020.
- **Neama A. Sobhy**, Nouran Y. Mohamed "Adsorption Studies of Lead Ions on Alginate-Calcium Carbonate Composite Beads", Chemistry Research Journal, Vol. 5(2), PP: 14-22, 2020.
- Ahmed S. Mahmoud, Marwa M. EL-Tayieb, **Neama Ahmed Sobhy Ahmed**, Ayman M. Mostafa "Algorithms and statistics for municipal wastewater treatment using nano zero valent iron (nZVI)", Journal of Environment and Biotechnology Research, Vol. 7, No. 3, Pages 30-44, 2018

- **Neama Ahmed Sobhy Ahmed**, Marwa M. Eltayieb “Green Synthesis Of Antibacterial : A Novel Nanocomposite From Poly Vinyl Alcohol/Poly Aniline/Ag”, *Misr Journal Of Agricultural Engineering*, Vol. 34 – No. (4-2), PP: 2411-2424, November 2017.
- **Neama A. Sobhy**, Samah A. Razek, Marwa M. Eltayieb “Green Synthesis of Silver Nanoparticles using Lawsonia alba Lam (Henna) Plant Extract and Its Antibacterial Activity and Toxicity”, *Chemistry Research Journal*, Vol. 2(6), PP: 225-235, 2017.
- **Neama Ahmed Sobhy**, Samah Abdel Razik Mohamed, Noura Fathy Abd El Salam. “Immobilization Of Penicillium Nonatum On Nano-Silica (NSI-PEN): An Efficient Biosorbent For Extraction of Mg(II) and Ca(II) From Water”, *Egyptian Journal OF Applied Sciences*, Vol. 32, PP: 130-144, 2017.
- Mohamed S. Mahmoud, Mohamed K. Mostafa, Samah A. Mohamed, **Neama A. Sobhy**, Mahmoud Nasr "Bioremediation of Red Azo Dye from Aqueous Solutions by Aspergillus niger Strain Isolated from Textile Wastewater", *Journal of Environmental Chemical Engineering*, Vol. 5, PP. 547–554, 2017
- **Neama Ahmed Sobhy Ahmed Reiad** "Using Polypyrrole Nanocomposites Coated on Rice Husk Ash for the Removal of Anions, Heavy Metals, COD from Textile Wsatewater", *Housing & Building Research Center Journal*, Vol. 13, PP. 297–301, 2017.
- **N.A.Reiad**, O.E. Abdel Salam, E.F. Abadir, F.A. Harraz "Green Synthesis of Antibacterial Chitosan Films Loaded With Silver Nanoparticles", *Chinese Journal of Polymer Science*, Vol. 31(7), pp. 984-993, July 2013.
- **N.A.Reiad**, O.E. Abdel Salam, E.F. Abadir, F.A. Harraz "Preparation, characterization and application of chitosan/polyethylene glycol blend film for removal of iron from water", *International Journal of Sustainable Water and Environmental Systems*, Volume 5, No. 1 pp. 43-49, 2013.
- **N.A.Reiad**, O.E. Abdel Salam, E.F. Abadir, F.A. Harraz "Adsorptive removal of iron and manganese ions from aqueous solutions with microporous chitosan/polyethylene glycol blend membrane, *Journal of Environmental Sciences*, Vol. 24(8), pp. 1425-1432, August 2012.
- O.E. Abdel Salam, **N.A.Reiad**, M.M. el Shafei "A study of the removal characteristics of heavy metals from wastewater by low cost adsorbents", *Journal of Advanced Research Magazine*, Cairo University, Vol. 2(4), pp. 297–303, October 2011.
- M.M. el Shafei, O.E. Abdel Salam, **N.A.Reiad** "Removal of heavy metals from wastewater onto peanut husks carbon", *Housing and Building National Research Center Magazine*, Cairo, Egypt, Vol. 5(3), pp. 81-88, December 2009.

- **N.A.Reiad**, O.E. Abdel Salam, M.M. el Shafei "Removal of heavy metals from aqueous solutions using natural zeolite", Al-Azhar University Magazine, Cairo, Egypt; Vol. 4(1), October, 2009.

## Proceedings

- **Neama Ahmed Sobhy Ahmed**, "Removal Of Phosphate From Aqueous Solutions Using Nano Zero Valent Iron", 10th International Conference for Future Horizon of Sustainable Development | Arab and African Countries and Facing the Challenges. that will be held in Sharm El-Sheikh, during the period 15-18/12/2018.
- **Neama Ahmed Sobhy Ahmed**, "Green Synthesis of Antibacterial A Novel Nanocomposite From Polyvinyl Alcohol/Polyaniline/Ag", 21<sup>st</sup> Conference of the Egyptian Society of Agricultural Engineering, 25 November 2017, Faculty of Agriculture, Alexandria University, Egypt.
- **N.A.Reiad**, O.E. Abdel Salam, E.F. Abadir, F.A.Harraz, "Green Synthesis of Antibacterial Chitosan Films Loaded With Silver Nanoparticles", ICNBS Egypt Conference, 29 November - 1 December 2013, Egypt.
- **N.A.Reiad**, O.E. Abdel Salam, E.F. Abadir, F.A.Harraz, "Preparation, characterization And antibacterial application of porous chitosan membranes impregnated with silver nanoparticles", The International Conference on Materials Science and Its Applications, 13-15 February 2012, Taif University, Saudi Arabia.

## References

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