

ASSOC. PROF.DR. SOHIER ABOBAKER

Egypt

New Demiatta

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https://resume.io/app/resumes/23521355/edit

ASSOC. PROF. OF CHEMICAL ENGINEERING

PROFILE

Dr. Sohier Abo Baker has hands- on experience in **Corrosion and Chemical Engineering for Oil and Gas industry and the different industrial technologies.**

Dr. Sohier Currently, working as a **Corrosion consultant and faculty member** in different Government and Private Universities in Egypt after long experience in the Corrosion and Materials Selection consultancies in a multinational oil and gas firm in the Middle East representing the golden mortar between the oil and gas hands on experience and the fine grade academia, She has over Twenty years of experience.

Dr. Sohier is considered one of the **pioneers on materials selection and corrosion applications** also she conducted many seminar and technical workshop a freelancer. She has a Bachelor, Master's and PhD degree in Chemical Engineering.

Dr. Sohier is a **professional trainer "TOT" certified,** has extensive hands-on experience in oil and gas as a professional instructor. She trained more than **fifty of courses in Chemical engineering**, Materials selection and Corrosion Application related topics.

EDUCATION

- B. Sc, Chemical Engineering , 1991, Minia University/Egypt
- M.Sc., Chemical Engineering 2003, Minia University/Egypt
- Ph.D., Chemical Engineering 2008, Minia University/Egypt
- Assoc. Professor, Department of Chemical Engineering, specializing in Nanotechnology and Materials Science 2026.

Employment History

- Mandate to Assistant Lecturer [2003-2005], El-Minia, University Egypt.
- Granted a scholarship for the Ph.Ddegree in Chemical Engineering , assistant teacher, [2005- 2008], El-Minia, University Egypt.
- Lecturer, Sherouk Academy Higher Institute of Engineering, Egypt, [2008 -2009].
- Lecturer, New Demiatta Higher Institute of Engineering, Egypt [2009-2012].
- Lecturer in Chemical Engineering, Faculty of Engineering, Delta University [2012 – 2014].
- Lecturer in Petroleum Engineering, Faculty of Engineering, Mansoura University [2014 - 2015].
- Lecturer in Chemical Engineering, Borg Al Arab Higher Institute of Engineering, Egypt [2015 – 2017].
- Lecturer in Chemical Engineering, New Demiatta, Higher Institute of Engineering, Egypt [2018 up to now].
- Assoc. Professor, Department of Chemical Engineering, specializing in Nanotechnology and Materials Science

Activities

1. Sharing in preparing books of Chemical Engineering for undergraduate students.

2. Sharing in preparing some courses specification for undergraduate such as: Chemical Engineering Principles, Chemical Engineering Thermodynamics, Heat Transfer, Fluid Mechanics, Mass Transfer, Petroleum Engineering, Petrochemical Engineering, Petroleum Engineering Refinery, Electrochemical Engineering, Modeling & Simulation, Computer Applications in Chemical Engineering, Plant Design Gas Processing and physical chemistry.

3. Preparing a curricula of Petroleum and Energy Engineering Program

Extra Curricular Acivitties

Courses delivered [2013 – 2022]

***As a Process* Instructor** working at different companies "training

department" such as Betropel Company (Cairo-Egypt), Oil & Gas Skill Co. (OGS- Cairo-Egypt), *British International Center For Training and Consultations BIC,* Cairotech Training & Consulting *company* ,Optimal Academy and Faculty of Engineering

***I have successfully conducted & delivered the following training courses*:**

1. *Instructor for training course* "***Chemical Fundamentals of Petroleum***", Cairo Petroleum Company (Cairo-Egypt)
2. Instructor for training course "***Water Treatment Chemicals***" Oil & Gas Skill Co. (OGS- Cairo-Egypt)
3. Instructor for training course "***Spectroscopic Analysis***" (Theoretical & Practical) (BIC - Cairo-Egypt)
4. *Instructor for training course* "***Basics of Oil Refining Technology Course***", Cairo Petroleum Company (Cairo-Egypt)
5. Instructor for training course"***Fundamentals of Corrosion & Corrosion Control***", Belayim Petroleum Company (Cairo-Egypt)
6. 6. Instructor for training course "***Heat Exchanger Design, Construction & Maintenance***" (BIC - Cairo-Egypt)
7. Instructor for training course "***Fundamentals of LPG Technology*** " Oil & Gas Skill Co. (OGS- Cairo-Egypt)
8. Instructor for training course "***Basics of Crude Oil Separation, Desalting and Stabilization***" Oil & Gas Skill Co. (*OGS- Cairo-Egypt)*
9. Instructor for training course "***Cement Quality and Chemistry (Physico)*"**
10. Instructor for training course "***Process Plants Design***" Oil & Gas Skill Co. (OGS- Cairo-Egypt)
11. Instructor for training course "***Process Hand Calculation***" Oil & Gas Skill Co. (OGS- Cairo-Egypt)
12. Instructor for training course "***Principles of Petrochemical Industries***" Oil & Gas Skill Co. (OGS- Cairo-Egypt)
13. **I**nstructor for training course "***ELECTRONIC CORROSION ENGINEER SOFT WARE"(ECE***), Betropel Company (Cairo-Egypt)
14. Instructor for training course "***Gas processing, Treatment and Sulphur Recovery"***
15. Instructor for training course "***Gas Conditioning & Processing*"** IBS Academy (Cairo-Egypt)
16. Instructor for training course "***Natural Gas Measurement***", Cairo Petroleum Company (Cairo-Egypt)
17. Instructor for training course "***Gas Dehydration & Hydrates Inhibition***" Oil

& Gas Skill Co. (OGS- Cairo-Egypt)

18. Instructor for training course "***Gas Production Engineering"*** IBS Academy (Cairo-Egypt)
19. Instructor for training course "***Natural Gas Sweetening Technology***" Oil & Gas Skill Co. (OGS- Cairo-Egypt)
20. Instructor for training course "***Process / Facility Fundamentals***
21. Instructor for training course "***Gas & Liquid Chromatography***" Oil & Gas Skill Co. (OGS- Cairo-Egypt)
22. Instructor for training course "**Health safety and environment management system manual**
23. Instructor for training course "**Chemical materials handling and storage**"
24. Instructor for training course "***Oil movement materials***" Cairotech & Consulting.
25. Instructor for training course "***Piping of oil and gas***" Cairotech Training & Consulting
26. Instructor for training course "***Tanks selection, design ,testing and repair and cleaning"***
27. Instructor for training course "***Flow measurements***" Faculty of Engineering
28. Instructor for training course ***"Controlling process and utility service isolating equipment***" Cairotech Training & Consulting
29. Instructor for training course "***Oil production and processing facilities"***Cairotech Training & Consulting
30. Instructor for training course "S***ervice facility production operation*** " Cairotech Training & Consulting
31. Instructor for training course "***Oil storage tank and pump***" Cairotech Training & Consulting
32. Instructor for training course "***Production water treatments***" Faculty of Engineering
33. Instructor for training course "***Corrosion control and monitoring***" Cairo Petroleum Company (Cairo-Egypt)
34. Instructor for training course "***Piping operations***" Optimal Academy
35. Instructor for training course "***Basics of Chemical Hazards in Petroleum Industry***" IBS Academy (Cairo-Egypt)
36. Instructor for training course "***Safe handling of dangerous chemicals***" Optimal Academy " Optimal Academy

43. Instructor for training course " ***The sources of environmental pollution are water pollution***" IBS Academy **(Cairo-Egypt)**

44. Instructor for training course " ***Sources of environmental pollution***" IBS Academy (Cairo-Egypt) & Faculty of Engineering

45. Instructor for training course "**Environmental pollution removal of petroleum**" Faculty of Engineering

46. Instructor for training course "***Air pollution and environmental protection***" Faculty of Engineering

47. Instructor for training course " ***Risk analysis***" Faculty of Engineering

48. Instructor for training course " ***Oil treatment***" Optimal Academy

49. Instructor for training course "T***he basics of safety, health and environmental protection for workers in the petroleum industry***" Optimal Academy

50. Currently preparing for a course in " **Advanced cement chemistry"**

LIST OF PUBLICATIONS

Papers published in journal, international conferences and domestic meeting**:**

1. G.S Hassan, A.M Hassan and **S.M Abobakr** " **RHEOLOGICAL PROPERTIES EVALUATION FOR SOME SHALES AT EASTERN SIDE OF MINIA AREA, EGYPT FOR POTENTIAL USE AS A DRILLING FLUID"** Bllentin of Faculty of Engineering, Faculty of Engineering, Minia University, Vol. 27, No. 2, July 2008
2. **M. Sohier,** S. Ali, A. El Bassini ." **Synthesis of Sharp Separation Seqences Using Heuristic and Fuzzy Appraoch**" Bllentin of Faculty of Engineering, Faculty of Engineering, Minia University, Vol. 26, No. 2, July 2007
3. **M. Sohier,** S. Ali, A. El Bassini ." **Heuristic Synthesis of a Multiproduct Separatin Process**" Bllentin of Faculty of Engineering, Faculty of Engineering, Minia University, Vol. 26, No. 2, July 2007

4. Nabiha I. Abdo, **Sohier M. Abobakr**, Abeer E. Abd El-Wahab3, and Nehal M. ElDeeb. " Superparamagnetic Iron Oxide Nanoparticles with Antimicrobial Activities: Synthesis and Characterization of Stable Dispersion of Fe3O4 in DMSO/Citric Acid" Advanced Science, Engineering and Medicine Vol. 11, 1–6, 2019. https://doi.org/10.1166/asem.2019.2412 www.aspbs.com/asem
   2164-6627 (print); EISSN: 2164-6635 (online)
   Publisher: American Scientific Publishers
   Publication date: August 1, 2019

5. **Abobakr SM,** Abdo NI and Mansour RA. " Remediation of Contaminated Water With Crystal Violet Dye by Using Magnetite Nanoparticles: Synthesis, Characterization and Adsorption Mechanism Studies" Journal of Environmental Studies Vol.6, I-1 October 2020. https://doi.org/10.13188/2471-4879.1000029 ISSN:12301485
   Avens Publishing Group

6. **S. M. Abobakr** and N. I. Abdo. ' Adsorption Studies on Chromium Ion Removal from Aqueous Solution Using Magnetite Nanoparticles" Egyptian Journal of Chemistry. **Vol. 65,** No. 8, pp. 21 - 29 (2022). doi:10.21608/ejchem.2022.95319.4475.

Print ISSN 0449-2285 **Online ISSN** 2357-0245

Publisher: Academy of Scientific Research and Technology

7. **Sohier Abo Bakr**, Magdi Khalil, Lamis Elgizawi, Mona Awad , and Abd El-Rahman El-lawindy**.** " Simulation of Thermal Insulation for Building Materials using Cellulose Extracted from Agricultural Residues' Design Engineering. Issue: 9 | Pages: 15937 – 15953 (2021). ISSN: 0011-9342.
Rogers Media Publishing Ltd

8. Nabiha . Abdo , Yasser M. Tufik , **Sohier M. Abobakr. "** A comparison of nano-celluloses prepared with various terms of time and sulfuric acid concentration from bagasse derived cellulose: Physicochemical characteristics and process optimization". Current Research in Green and Sustainable Chemistry 6 (2023) 100365.
https://doi.org/10.1016/j.crgsc.2023.100365. ISSN:26660865
PUBLISHER ELSEVIER BV

9. A.M. Abdelghany, I. S. Elashmawi, **Sohier M. Abobakr**, Zeinab S. Abouelnaga" Characterization, Optimization, and physicochemical characteristics of polyvinyl alcoholcontaining sulfa drug" Egyptian Journal of Chemistry.

Print ISSN 0449-2285 **Online ISSN** 2357-0245
Publisher: National Information and Documentation Center (NIDOC)
DOI: 10.21608/EJCHEM.2019.6778.1566

10. Abd El-Rahman El-Lawindy1, Hend Hamdi Abdelkader, Ahmed A. ABDULLAH., **Sohier M. Abobakr** and Magdi Khalil." The Role of Agriculture Waste in Achieving High Efficacy in Residential Sustainable Buildings in Egypt"International Journal of Industry and Sustainable Development (IJISD), Volume 5, Issue (2) : Special Issue , (August 2024).

Print ISSN 2682-3993 Online ISSN 2682-4000.

Publisher: Ministry of Military Production, Egyptian Academy for Engineering & Advanced Technology (EAE&AT).

11. **Sohier M. Abobakr ,** Magdi Khalil , Amr Mohamed Abdelghany. " Magnetite-Cellulose Core-Shell Nano Structure in Polymer Composite Materials for Storage Energy Applications". International Journal of Industry and Sustainable Development (IJISD), Volume 5, Issue (2) : Special Issue , (August 2024).

Print ISSN 2682-3993 Online ISSN 2682-4000.

Publisher: Ministry of Military Production, Egyptian Academy for Engineering & Advanced Technology (EAE&AT).

Note

Participations, Documents, Certificates, Letters of appreciation/ Gratitude/ Recommendation are available upon request.