



DR. ENG. SOHIER ABOBAKER

CHEMICAL ENGINEERING LECTURER

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.



Egypt

New Demiatta



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

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

EMPLOYMENT HISTORY

- Mandate to Assistant Lecturer [2003-2005], El-Minia, University



Egypt.

- Granted a scholarship for the Ph.D degree 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].

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. ***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. ***Instructor for training course "ELECTRONIC CORROSION ENGINEER SOFTWARE"(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"***
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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 "**Service 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 "**The basics of safety, health and environmental protection for workers in the petroleum industry**"
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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. **Sohier Abo Bakr**¹, Magdi Khalil², Lamis Elgizawi³, Mona Awad⁴, and Abd El-Rahman El-lawindy⁵, " **Simulation of Thermal Insulation for Building Materials using Cellulose Extracted from Agricultural Residues**" Design Engineering ISSN: 0011-9342 | Year 2021 Issue: 9 | Pages: 15937 – 15953
2. **S.M. Abobakr**¹ and N.I. Abdo^{*2} " **Adsorption Studies on Chromium Ion Removal from Aqueous Solution Using Magnetite Nanoparticles**" Egyptian Journal of Chemistry
3. **Abobakr SM**¹, Abdo NI^{2*} and Mansour RA¹ " **Remediation of Contaminated Water With Crystal Violet Dye by Using Magnetite Nanoparticles: Synthesis, Characterization and Adsorption Mechanism Studies**" Journal of Environmental Studies
4. Nabiha I. Abdo^{1*}, **Sohier M. Abobakr**², Abeer E. Abd El-Wahab^{3*}, and Nehal M. El-Deeb⁴ " **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
5. 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
6. **M. Sohier**, S. Ali, A. El Bassini . " **Synthesis of Sharp Separation Seqences Using Heuristic and Fuzzy Approach**" Bllentin of Faculty of Engineering, Faculty of Engineering, Minia University, Vol. 26, No. 2, July 2007
7. **M. Sohier**, S. Ali, A. El Bassini . " **Heuristic Synthesis of a Multiproduct Separation Process**" Bllentin of Faculty of Engineering, Faculty of Engineering, Minia University, Vol. 26, No. 2, July 2007

Note

[Participations, Documents, Certificates, Letters of appreciation/ Gratitude/ Recommendation are available upon request.](#)

