

CURRICULUM VITAE

Salah Ali Ahmed Al-Garyani

CONTACT DETAILS

Chemical Engineering Department
Faculty of Engineering
University of Tripoli
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QUALIFICATIONS

MSc (Chemical Engineering), 2007
Dalhousie University , Halifax, N.S, Canada
B.Sc.(Chemical Engineering), 1996
University of Tripoli , Tripoli, Libya

PRESENT POSITION

Lecturer
Chemical Engineering Department
Faculty of Engineering
University of Tripoli

AREAS OF INTERESTS

- Inhibition and promotion hydrate formation.
- CO₂ Capture
- Solar Desalination.

EMPLOYMENT HISTORY

2008 – present

Lecturer
Department of Chemical Engineering, Faculty of Engineering, University of Tripoli, Libya.

Subjects:

- Chemical Engineering Thermodynamics I.

- Chemical Reaction Engineering I.
- Chemical Reaction Engineering II.
- Numerical Methods in Chemical Engineering.
- Computer programming.
- Unit operation lab I & II.
- Supervisor for final year student projects.

Dalhousie University, Halifax, N.S, Canada

Research Assistant

2005-2007

investigated the effect of ionic surfactants (inhibition or promotion) on the hydrate formation.

use the quartz crystal microbalance as new technology:

- to detect the onset of hydrate formation.
- ability to distinguish between the formation of a solid block or slurry of small particles of hydrate.

Teaching Assistant

- Thermodynamics I Tutorials.
- Chemical Reaction Engineering Tutorials.

Department of Chemical Engineering, Faculty of Engineering, University of Tripoli, Libya.

Teaching Assistant

2001 – 2004

- Mass Transfer Tutorials .
- Heat Transfer Tutorials.
- Petroleum. Refinery Engineering Lab.
- Numerical Methods in Chemical Engineering Lab.

The Arabian Beverage Manufacturing and Filling Company, Tripoli, Libya

Process Engineer

1998 – 2001

In my role, I supervised a dozen employees in two *carbon dioxide production and liquefaction* plants. Assigned tasks to keep target production including:

- Plant start up, operating, testing, and monitoring CO₂ production processes (daily tasks).
- Changing solutions including, amine solution and the purifier unit solutions.
- Changing packing of the CO₂ driers, carbon filters.

Research Assistant

1996 - 1998	Solar Energy Central Tripoli Search, Tripoli, Libya Developed the Multi Effect Solar Desalination Unit to produce water. Achievement: Increased the unit water productivity from nearly 780 ml/m² per day to more than 5000 ml/m² per day.
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TECHNICAL SKILLS

- Simulation tool: HYSYS
- Programming : MATLAB
- Programming language: Fortran
- Statistical software: Minitab 15

AWARDS / SCHOLARSHIPS

2006 – 2007	National Science and Engineering Research Council of Canada (NSERC)
2005 – 2006	Faculty of Graduate Studies (FGS) Scholarship, Dalhousie University
2004 - 2006	The Libyan Education Program funded by the Government of Libya

PUBLICATIONS

- 1- Asia Meshrghi, Mawaheb Zarok Derdar, Salah Algaryani, and Ahmed AlNaser Reducing Carbon Footprint at South Tripoli Power Station. (2019).
 - 2- Elmahboub A. Edreder^{1,*}, Ammar M. Ghayth², Salah A. Algaryani³ Refinery Configurations for Maximum Gasoline Production Refinery Configurations for Maximum Gasoline Production (2016)
 - 3- Nusaiba Khzam^{1,*}, Hala Elgrew¹, Sabri Mrayed¹, Salah Algaryani¹, Waleed Elragibi² Effect of Inlet Pressure on Slug Development in a Multiphase Flow Pipeline (2016).
 - 4- Y. Swesi, S. Mrayed, V. Meille, I. Pitault and S. AL Garyan, " PERFORMANCES OF METALLIC FOAMS AS SUPPORTS FOR CATALYSTS " *Journal of Engineering Research University of Tripoli -Libya Issue (18) March 2013 (17)*.
 - 5- S. AL-Garyani, P. K. Yuet. "Effect of Ionic Surfactants on Tetrahydrofuran Hydrate Formation," 57 th Canadian Chemical Engineering Conference, Edmonton, 2007.
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