

# CURRICULUM VITAE

**Salah Ali Ahmed Al-Garyani**

**CONTACT DETAILS**      Chemical Engineering Department  
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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

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**PRESENT POSITION**      Lecturer  
Chemical Engineering Department  
Faculty of Engineering  
University of Tripoli

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**AREAS OF INTERESTS**

- Inhibition and promotion hydrate formation.
- CO<sub>2</sub> Capture
- Solar Desalination.

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## 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 CO<sub>2</sub> production processes (daily tasks).
- Changing solutions including, amine solution and the purifier unit solutions.
- Changing packing of the CO<sub>2</sub> 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/m<sup>2</sup> per day to more than 5000 ml/m<sup>2</sup> per day.

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#### TECHNICAL SKILLS

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

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#### PUBLICATIONS

- 1- Asia Meshrghi, Mawaheb Zarok Dardar, Salah Algaryani, and Ahmed AlNaser Reducing Carbon Footprint at South Tripoli Power Station. (2019).
  - 2- Elmahboub A. Edreder<sup>1,\*</sup>, Ammar M. Ghayth<sup>2</sup>, Salah A. Algaryani<sup>3</sup> Refinery Configurations for Maximum Gasoline Production Refinery Configurations for Maximum Gasoline Production (2016)
  - 3- Nusaiba Khzam<sup>1,\*</sup>, Hala Elgrew<sup>1</sup>, Sabri Mrayed<sup>1</sup>, Salah Algaryani<sup>1</sup>, Waleed Elragibi<sup>2</sup> 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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