

Curriculum Vitae: Gamal Alusta, BSc, MPhil, PhD

PERSONAL DETAILS

Name:	Gamal Abdalla Alusta	Nationality:	Libyan
		Status:	Married
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PROFILE

Self-motivated, honest and dependable. Someone who strives for excellence in what he is doing while keeping the overall objective in mind. An efficient and hard working individual who is always willing to develop new skills and adapt to new environments.

➤ QUALIFICATIONS

- PhD in Petroleum Engineering, Heriot-Watt University, UK, 2013.
- MPhil in Petroleum Engineering, Heriot-Watt University, UK, 2005.
- BSc Petroleum Engineering, Tripoli- University, Tripoli-Libya, 1994.

➤ (Feb. 2014 - Present) Assistant Professor – Chemical and Petroleum Engineering Department -United Arab Emirates University, UAE

Teaching undergraduate and graduate courses in petroleum engineering and related areas.

The research interests are;

- Integrating reservoir simulation and economic modelling to assist with decision making between EOR projects and infill well drilling to extend field life and linking dynamic simulation with economic evaluation.
- Formation damage, Drilling mud evaluation, well test interpretation in order to estimate the skin.

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CAREER HISTORY

➤ (Jan 2009- Nov 2013) PhD research project - Heriot-Watt University,

The project discussed the implications of using this newly developed methodology in identifying the risk of failure and in assisting in making an optimal choice based on technical and economic considerations in a fully integrated manner between reservoir simulation and economic modelling to assist with decision making between EOR projects (in this case polymer flooding) and/or infill well drilling for North Sea fields. (BP was supporting this project with models, data and advice).

➤ (2010- 2013) (Part-Time Job) - Heriot-Watt University

I have undertaken demonstration duties for the MSc Petroleum Engineering Programme for the academic years of 2010/2011, 2011/2012 and 2012/2013 at Heriot-Watt University. This involves showing students how to perform reservoir simulation calculations using the industry standard Eclipse 100 software.

➤ (2011- 2013) (Part-Time Job) - Heriot-Watt University

I have undertaken demonstration duties for the MSc Petroleum Engineering Programme for the academic years of 2011/2012 and 2012/2013; this involves showing students how to use the PanSystem software to analyze and to evaluate the pressure response in wells. I demonstrate Drawdown and Build-up analysis using specialized plots to:

- Identify flow regimes using the log-log diagnostic plot
- Use type curves pressure derivative
- Calculate wellbore storage skin factor effects
- Investigate reservoir boundaries effects including single and multiple boundaries
- Calculate average reservoir pressure

➤ (2010- 2012) (Part-Time Job) – BP

I have undertaken duties as a researcher compiling oil and/or gas production data with BP Stats Review team for the academic years of 2010/2011, 2011/2012. The team, based at the School of Management and Languages (Heriot-Watt University),

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compiles the data for the BP Statistical Review, working with 6-7 research assistants and an administrator. The work includes:

- Processing data sent to us by BP.
- Gathering and processing data from subscription and other sources.

➤ **(Mar 2008 – Sep 2008) Petroleum Engineer, Woodside Energy (N.A) Ltd -Libya.**

- Responsible for design, execution, interpretation and reporting of results of production tests of Murzuq basin fields.
- Lecturer for around a year at Petroleum Engineering department at Comrades University, Tripoli, Libya

➤ **Sep 2000- Mar 2008 Reservoir engineer, Repsol Oil Operations – Tripoli, Libya**

- Special project related to formation damage. This project including drilling mud evaluation, well test interpretation in order to estimate the skin, and evaluation of the type and size of the perforation guns. The result was a recommendation and new procedure to eliminate formation damage potential.
- As a coordinator of CCA, SCAL and PVT study in all concession, responsibility included prepare the scope of work, following the experiment, evaluate result and prepare report as guidance for reservoir engineering calculation.
- Reservoir Simulation studies using Eclipse 100, dynamic reservoir modelling, reservoir management, reservoir performance analysis, optimization of fields, development planning, production forecasting and Asset Evaluation
- Reservoir Eng. ROO-Libya (YPF Repsol) Working in NC-186 and NC-115 Concessions in Libya, a new field where more than 40 wells are drilled annually and performing reservoir calculations using the Eclipse 100 reservoir simulation software.
- Actively proposing appraisal and infill wells in fields A and B NC-186, some wells have been drilled and completed with positive results.
- Design, execution, interpretation and reporting results of production and injectivity tests. More than 20 wells have been studied, which led to an improved pump design in A-NC-186 Field.

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- ESP design and trouble shooting of existing ESP problems and review and monitoring of ESP performance for all wells in NC-186 (oil and water) in all concessions.
- Surveillance study for monitoring and optimizing water flood project.
- Mentor for junior reservoir engineers in performing production and injection tests.

➤ **Aug 1997 – Mar 2000: Drilling & Workover Engineer, Repsol Oil**

Operations, Tripoli, Libya

- Description, monitoring and evaluation of drilling parameters, casing points, cement calculations, daily workover and well drilling reports.
- Following the drilling & Workover operations for fields A, B, H, and M in concession NC 115, Murzuq Basin.
- Preparation of workover programs and follow-up of completions.

➤ **COURSES**

Hydrocarbon Recovery	2010	Edinburgh, UK
Enhanced Oil Recovery	2009	Paris, France
Performance Analysis, Production, and Optimization Using Nodal Analysis	2008	London, UK
Completion and Workovers	2008	London, UK
Roxer Multiphase flow meter 1900	2006	Bergen, Norway
Geophysics for petroleum engineers and geologist	2006	Libya, Benghazi
Advanced well test	2004	Edinburgh, UK
PVT and phase behavior of Reservoir Fluids	2003	Edinburgh, UK
Production Technology	2003	Edinburgh, UK
Reservoir Simulation	2003	Edinburgh, UK
Reservoir Engineering	2002	Edinburgh, UK
Mud Program	1999	Madrid, Spain
Well Completion Equipment and Procedures	1999	Madrid, Spain
Well Completion	1999	Tripoli, Libya
Drilling Rigs, Equipment and Operations	1998	Tripoli, Libya

Industry software used: Eclipse 10, PanSystem, Saphir - KAPPA, Prosper, GAP, MBAL, petrel, Wellflo and Spotfire

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REFERENCE 1

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