

CURRICULUM VITAE

DR SALEH ARWINI

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EDUCATION AND QUALIFICATIONS

- 2009- 2013** PhD in Petroleum Engineering at Institute of Petroleum Engineering, Heriot Watt University, Edinburgh, UK
Supervisors: Dr Karl D. Stephen and Prof Colin MacBeth
Thesis Title: *“Improving the Convergence Rate of Seismic History Matching with a Proxy Derived Method to Aid Stochastic Sampling”*
Award: PhD in Petroleum Engineering.
- 2002-2003** MSc in Field and Well Management at The Robert Gordon University, Aberdeen, UK.
MSc Project Title: *“Sand Cleanouts in Depleted Reservoir by Coiled Tubing”*.
Award: MSc in Field and Well Management with Distinction.
- 2001-2002** MSc in Information Technology Systems at Heriot Watt University, Edinburgh, UK.
MSc project Title: *“Developing On-line learning Material in the Area of AC Theory”*
Award: MSc in Information Technology (Systems).
- 1989-1994** BSc in Petroleum Engineering at Faculty of Engineering, University of Tripoli (formerly Al-Fateh University), Tripoli- Libya.
BSc project: *“Two-Phase Flow Through Directional Wells in Bouri Field”*
Award: BSc in Petroleum Engineering.

WORK EXPERIENCE

July 2020 – Now

Associate Professor at Petroleum Engineering Department, Faculty of Engineering, University of Tripoli, (formerly Al-Fateh University), Tripoli, Libya.

July 2016 – June 2020

Assistant Professor at Petroleum Engineering Department, Faculty of Engineering, University of Tripoli, (formerly Al-Fateh University), Tripoli, Libya.

July 2013 – June 2016

Lecturer at Petroleum Engineering Department, Faculty of Engineering, University of Tripoli, (formerly Al-Fateh University), Tripoli, Libya.

July 2004 – October 2008

Assistant Lecturer at Petroleum Engineering Department, Faculty of Engineering, University of Tripoli, (formerly Al-Fateh University), Tripoli, Libya.

July 1997 – November 2000

Teacher Assistant at Petroleum Engineering Department, Faculty of Engineering, University of Tripoli (formerly Al-Fateh University), Tripoli-Libya.

December 1995 - July 1997

Petroleum engineer at Mellitah Oil & Gas (formerly Agip oil company Ltd) - Libyan Branch

- Complete multidisciplinary Orientation Program
- Oilfield Laboratory: routine analysis of brine and crude oil samples
- Follow-up workover and completions programs

TEACHING EXPERIENCES

- Teaching undergraduate, and graduate courses in Petroleum Engineering. Teaching the following courses:
 - Introduction to Petroleum Engineering
 - Reservoir Rock properties
 - Reservoir Fluid Properties
 - Fluid Flow through Porous Media
 - Applied Reservoir Engineering
 - Numerical Methods
 - Reservoir Simulation
 - Advanced Production Engineering
 - Advanced Reservoir Engineering
- Teaching undergraduate courses in Computer Science. Teaching the following courses:
 - FORTRAN
 - C++
 - Numerical methods
- Supervising graduate students toward their M.Sc. degree in Petroleum Engineering
- Supervising undergraduate students toward their B.Sc. degree in Petroleum Engineering
- Examiner for several MSc thesis in petroleum engineering

TRAINING EXPERIENCE

- Training course titled: “**Production Assurance & Optimization**” at Technical and Administrative Development Centre TMDC, National Oil Corporation NOC, Tripoli Libya.
- Training course titled: “**Well Completion & Workover Operation**” at Technical and Administrative Development Centre TMDC, National Oil Corporation NOC, Tripoli Libya.

RESEARCH INTERESTS

- Reservoir and Production Engineering
- Simulation studies
- PVT

PROFESSIONAL MEMBERSHIPS

- Society of Petroleum Engineers (SPE)
- European Association of Geoscientist & Engineers (EAGE)

SKILLS

COMMUNICATION

- Good communication skills; ability to adapt to and work in multicultural environments; team spirit.
- Able to communicate fluently with people at all levels in friendly way.

COMPUTER SKILLS

- **Software:** Schlumberger Simulation Launcher (Eclipse 100), MBAL, PROSPER and GAP
- Programming: FORTRAN, C++
- Others: Microsoft Office

LANGUAGE SKILLS

- Arabic: First mother tongue
- English: Advanced level

APPENDIX A: CONFERENCE PAPERS

- [1] Arwini, S. "Porosity - Permeability Relationship of Libyan Carbonate Reservoir in Defa Oil Field," World Academics Journal of Engineering Sciences (WAJES), Vol.7, Issue No. 2, pp.01-05, June (2020)
- [2] Arwini, S., Abbassi, H.; "Aquifer Characterization and Modelling, a Case Study of Bahi Oil Field," University Bulletin, Vol. 21 (1), Issue No.22, pp. 21-42, March (2020)
- [3] Arwini, S.: "Hydraulic Fracturing Technique to Improve Well Productivity and Oil Recovery in Deep Libyan Sandstone Reservoir", The 1st International Conference on Chemical, Petroleum, and Gas Engineering (ICCPGE 2016), 20-22 December, 2016.
- [4] Arwini, S.: "Evaluation of Solution Gas-Oil Ratio Correlations for Libyan Crude Oil at and Below Bubble Point Pressures", The 1st International Conference on Chemical, Petroleum, and Gas Engineering (ICCPGE 2016). 20-22 December, 2016.
- [5] Arwini, S. and Stephen, K. D.: "*Misfit Proxy Models To Guide Genetic Method To Generate An Improved Set Of Final Reservoir Models*", The center of Research and Scientific consultancy, University Bulletin, Vol. 1, No. 18, pp. 115-137, 2016.
- [6] Arwini, S and Mahmud W.: "*Study of Multiphase Flow in Inclined Wells - Field Case Study*", The Thirteenth Mediterranean Petroleum Conference and Exhibition, MPC 2014, Istanbul, Turkey, 14-16 October, 2014.
- [7] Mahmud W. and Arwini, S.: "*Experimental and Network Model Study on The Effect of Network Topology on Two-Phase Ambition Relative Permeability*", The Thirteenth Mediterranean Petroleum Conference and Exhibition, MPC 2014, Istanbul, Turkey, 14-16 October, 2014.

- [8] Arwini, S. and Stephen, K. D.: “*Improve Convergence Rate of Seismic History Matching using NAPG*,” Extended Abstract, EAGE, the Integrated Reservoir Modelling Conference, Dubai, UAE, 25 - 28 November 2012.
- [9] Arwini, S. and Stephen, K. D.: “*Combining experimental design with proxy derived sensitivities to improve convergence rates in Seismic History Matching*,” paper SPE 143528, presented at the SPE EUROPEC/EAGE Annual Conference and Exhibition held in Vienna, Austria, 23–26 May 2011.
- [10] Stephen, K.D. and Arwini, S.: “*Improving Stochastic Inversion Methods in History Matching using Proxy Models*,” ECMOR XII, 12th European Conference on the Mathematics of Oil Recovery, 6-9 September 2010, Oxford, UK.
- [11] Arwini, S. and Stephen, K. D.: “*A New Method to Improve Convergence Rates with Seismic History Matching*,” paper SPE 131545, presented at the SPE EUROPEC/EAGE Annual Conference and Exhibition held in Barcelona, Spain, 14–17 June 2010.
- [12] Stephen, K. D., Kazemi, A., Sedighi, F., Arwini, S., Shams, A., MacBeth, C., Sagitov, I. & Said, A. “*Improved reservoir description using seismic history matching*” Production and Development Conference and Exhibition, DEVEX, Aberdeen Exhibition and Conference Centre, 12-13 May 2010.
- [13] Stephen, K. D., MacBeth, C., Shams, A., Sedighi, F., Kazemi, A., Said, A., Arwini, S. and Sagitov, I. “*Seismic history matching*” SPE/EAGE/AAPG ATW, 4D seismic for reservoir management, Edinburgh, 28th Sep-1st Oct 2009.

APPENDIX B: REFERENCES

- [1] Dr Karl D. Stephen, Institute of Petroleum Engineering, Heriot-Watt University, Edinburgh, UK.
E-mail: karl.stephen@pet.hw.ac.uk
Phone: (+44) 131 451 3603
- [2] Professor Mohamed Nasr, Ex-head of Petroleum Engineering Department, University of Tripoli (formerly Al-Fateh University), Tripoli, Libya.
E-mail: msmnasr@yahoo.com
Phone: (+218) 91 318-2246
- [3] Prof. Eric Mackay, Institute of Petroleum Engineering, Heriot-Watt University, Edinburgh, UK.
Email: eric.mackay@pet.hw.ac.uk
Phone: (+44) 131 451 3670