CURRICULM VITAE
DR SALEH ARWINI

Date of Birth : 04 March 1972
Nationality   : Libyan
Mobile   : (+218) 92 683 9129
Address   : Tripoli University, Faculty of Engineering, Tripoli – Libya
E-mail   : Saleh.j.Arwini@gmail.com
                  : S.Arwini@uot.edu.ly

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