



Name: Dr. Biltayib Ahmed Biltayib

Rank: Assistant Professor - Petroleum Engineering

Personal Information

Nationality:	Libyan
AU Joining Date:	20 Dec 2014
E-Mail Address:	b.biltayib@au.edu.kw

Professional Information

Education:	<ul style="list-style-type: none"> - 1991-1995 Bachelor of Science (BSc) in petroleum engineering, Bright Star University of Petroleum technology - 1998 -2001 Master of Science (MSc) in petroleum engineering (Miskolc university (Hungary) - 2002-2006 Philosophy doctorates (PhD) in petroleum engineering, TU Bergakademie Freiberg, Germany.
Specialization:	<ul style="list-style-type: none"> - Industry acknowledged specially in, drilling Engineering in terms of well design and Construction, operation and related problems usually occur while drilling a well such as Loss circulation, pipe sticking. - Specialize in environmental issues of petroleum exploration and - Production and author of the written book about Reducing Environmental Risk in Oil and Gas.
Current Academic Position:	Assistant Professor
Current Professional Positions:	<ul style="list-style-type: none"> - Reviewer in Open Journal of Fluid Dynamics (OJFD)
Previous Administrative Position Held:	<ul style="list-style-type: none"> - Drilling superintendent at National oil Corporation - Acting Manager of Libyan oil Production at National oil Corporation - Member of committee of Amerada Hess Libya Exploration Limited
Fellowships And Honors:	<ul style="list-style-type: none"> - Best graduation project petroleum engineering 2016 and 2018 - Best management award drilling operation: Libyan NOC-2009 - Nominated for Libya representative at OPEC-2008. - Awarded scholarship for MSc (Funded by Libyan National Oil Corporation),

	<ul style="list-style-type: none"> - Awarded scholarship for PhD (Funded by ministry of education in Libya).
Teaching Experience:	<p>I have worked as part-time instructor for more than 8 years.</p> <ul style="list-style-type: none"> - Place1: Tripoli University -from 2008 to 2011 - Place2: Mechanical High Institute -Nasser Aldeen – Petroleum Department from 2008 to December 2014 - Place 3: AU: I have been working as Full-time instructor at AU since December 2014.
Industrial And Technical Experience:	<ol style="list-style-type: none"> 1. Agip Gas, Company (Libyan Branch) from July 2001 to 2002.implement procedures to drill wells as safely and economically as possible. They work closely with the drilling contractor, service contractors, and compliance personnel, as well as with geologists and other technical specialists. 2. Drilling Engineer Consultant with Almotafougon Oilfield Services Company (AOSCO-LIBYA) from January 2008 until December 2010. 3. Drilling Engineer Consultant (2010) with Joint Oil Company. in Tunisia for one month during drilling offshore well in Zerat 4. Libya National Oil Corporation from 2007 to December 2014. Reports to the Drilling Manager and represent the company in all drilling related activities required to drill, evaluate and complete a well. Also, Perform periodic evaluations for the Drilling Supervisors, Drilling Engineers and Drilling Technicians. 5. Management Committee Member for HESS Libya Offshore Area 54 Exploration Company: Hess Libya Exploration Limited is working in offshore Area 54 from 2008 to December 2014.
Research Interest:	<ul style="list-style-type: none"> - Well design and construction - Wellbore instability - Drilling Technology - Drilling Fluid - Environmental issues of petroleum Drilling and production - Produced water treatment
Research Grants:	<ul style="list-style-type: none"> - KFAS Grant (1 project, 4610 KD, 12 months) – Co PI - AU internal Grant (1 project,1500 KD, 12 months)- Co PI
Research and Publications including Journal and Books:	<ol style="list-style-type: none"> 1. Biltayib Misbah a, Ahmad Sedaghat, Masoud Rashidi, Mohammad Sabati , Koshy Vaidyan, Naser Ali , Mohamed Abdulsalam Ali Omar,Seyyed Shahabaddin Hosseini Dehshiri(2022), Friction reduction of Al₂O₃, SiO₂, and TiO₂ nanoparticles added to non-Newtonian water based mud in a rotating medium. Journal of Petroleum Science and Engineering.journalhomepage:www.elsevier.com/locate/petrol. 2. Saad Balhasan, Biltayib M. Biltayib, Mahmoud Elsharafi, Mohamed Omar, Ibrahim Musbah. Negotiating Natural Resources: A Case Study of Environmental Conflict Resolution. Journal of Positive School Psychology.

3. Biltayib Misbah Biltayib, Maryam Bonyani, Afrasyab Khan, Chia-Hung Su, Yi-Yang Yu, (2021) Predictive modeling and simulation of wastewater treatment process using nano-based materials: Effect of pH and adsorbent dosage. Journal of Molecular Liquids. www.elsevier.com/locate/molliq.
4. Masoud Rashidi, Ahmad Sedaghat, Biltayib Misbah, Mohammad Sabati, Koshy Vaidyan, Ali Mostafaeipour, Seyyed Shahabaddin Hosseini Dehshiri, Khalid Almutairi, and Alibek Issakhov, (2021), Introducing a Rheology Model for Non-Newtonian Drilling Fluids. Hindawi. Geofluids Volume.
5. Masoud Rashidi · Ahmad Sedaghat · Biltayib Misbah · Mohammad Sabati · Koshy Vaidyan · Ali Mostafaeipour · Seyyed Shahabaddin Hosseini Dehshiri · Khalid, Almutairi · Alibek Issakhov, Seyed Amir Abbas Oloomi · Mahdi Ashtian Malayer. (2021), Simulation of Wellbore Drilling Energy Saving of Nanofluids Using an Experimental Taylor–Couette Flow System. Journal of Petroleum Exploration and Production Technology <https://doi.org/10.1007/s13202-021-01227-w>.
5. Masoud Rashidi, Ahmad Sedaghat, Biltayib Misbah, Mohammad Sabati, and Koshy Vaidyan, Australian University, Kuwait (2020) Use of SiO₂ Nanoparticles in Water-Based Drilling Fluids for Improved Energy Consumption and Rheology A Laboratory Study: Society of Petroleum Engineers journal SPE.
6. Masoud Rashidi, Ahmad Sedaghat, Biltayib Misbah, Mohammad Sabati, Koshy Vaidy (2020)., Experimental study on energy saving and friction reduction of Al₂O₃-WBM nanofluids in a high-speed Taylor-Couette flow system, Tribology International, Publisher Elsevier. Tribology International 154 (2020) 106728.
7. Saad A. B, Brian F. Towler., Khaled O. AlHadramy, Biltayib Misbah, (2019). Comparative risk evaluation and sensitivity analysis of the Libyan EPSA IV and its modified model LEPSA, Science Direct, Publisher Elsevier.
8. Rashidi M., Biltayib B.M., Asadi A. (2019) Experimental Analysis and Cement Slurries Properties Evaluation Using Novel Additives. In: Banerjee S., Barati R., Patil S. (eds) Advances in Petroleum Engineering and Petroleum Geochemistry. Advances in Science, Technology & Innovation (IEREK Interdisciplinary Series for Sustainable Development). Springer, Cham
9. Saad Balhasan, Biltayib Misbah, Mohamed Omar, Ibrahim Misbah and Belkasim Khameiss., (2018). Impact of Proposal Changes to Libyan Oil Taxation System on Developing the 137 B Offshore Field. Journal of Engineering and Applied Sciences., Medwell journal. volume:13
10. Biltayib Misbah Biltayib¹, Masoud Rashidi¹, Saad Balhasan², Reem Alothman¹, Mufazzal S. Kabuli¹ (2018) Experimental analysis on

	<p>rheological and fluid loss control of water-based mud using new additive, Journal of Petroleum and Gas Engineering (JPGE). ISSN: 2141-2677.</p> <p>11. Biltayib. M, Mufazzal. S. Kabuli., Dania Issa, Norah Ayyadand, Daliris Ramires Australian University (AU); (2016)., Management of Drilling Cuttings in Term of Volume and Economics in Oil Field, Journal of Engineering Research and Application. ISSN: 2248-9622, Vol. 6, Issue 10, (Part -1) October 2016, pp.45-47.</p> <p>12. Khulud M. Rahuma., Biltayib Misbah., Sharoh Marquez., Effect of Petrophysical Parameters on Water Saturation in Carbonate Formation, Journal of Engineering Research and Applications, ISSN: 2248-9622, Vol. 6, Issue 3, (Part - 6) March 2016, pp.57</p> <p>13. Biltayib. M. Biltayib, Saad A.Balhasan., Mohamed. A.Omar ., Australian University (2015) Effects of Directional Permeability Anisotropy on Sweep Efficiency for Five-Spot and Nine-Spot Pattern Flood . J Pet Environ Biotechnol 2015, Petroleum & Environmental. ISSN: 2157-7463 JPEB, an open access journal. Volume 6 • Issue 5 • 1000238.ISSN: 2157-7463 JPEB, an open access journal.</p> <p>14. Biltayib. M. Biltayib, National Oil Corporation (NOC) (2015), Reducing Environmental Risk in Oil and Gas Operations, LAP LAMBERT Academic Publishing (Book), ISBN-13: 978-3-659-74270-5., ISBN-10: 3659742708., EAN: 9783659742705.</p> <p>15. Biltayib. M. Biltayib, Saad A.Balhasan., Mohamed. A.Omar.,(Australian University (2015), Example of Improve drilling operational efficiency and reducing well costs in the Sirte basin Libya., IRACST – Engineering Science and Technology: An International Journal (ESTIJ), ISSN: 2250-3498.Vol.5, No.1, February 2015.</p> <p>16. Biltayib. M. Biltayib, Saad A.Balhasan., Mohamed. A. Omar., Australian University (2015)., Ultra mud system Optimizes Drilling Efficiency in Sirte basin. Asian Journal of Engineering and Technology. ISSN: 2321 – 2462.</p> <p>17. Biltayib and M K Kherialla – 2005, Guiding AGOCO for Identification Drilling and Production Aspects according to ISO 14001 Journal of Environmental Sciences, Vol 30 – The University of Mansoura, Egypt.</p> <p>18. Biltayib. Misbah, Australian University (AU). Khulud.Rahuma, Al-Fateh University, (2015); Effect of Salinity on Polymers Performance:fifith environmental conference , Damiet university.</p>
Paper Presentations at Professional Conferences:	<p>1. Saad Balhasan, Biltayib. Biltayib, (2019), Risk Evaluation & Sensitivity Analysis of the Exploration & Production Sharing. Agreement, Abu Dhabi International Petroleum Exhibition & Conference held in Abu Dhabi, UAE.</p> <p>2. Rashidi M., Biltayib B.M., Asadi A. (2019) Experimental Analysis and Cement Slurries Properties Evaluation Using Novel Additives. In: Banerjee S., Barati R., Patil S. (eds) Advances in Petroleum Engineering and</p>

	<p>Petroleum Geochemistry. (IEREK Interdisciplinary Series for Sustainable Development). Springer, Cham</p> <ol style="list-style-type: none"> 3. Masoud Rashidi, Adel Asadi, and Misbah Biltayib (2018) Correlation Between Uniaxial Compressive and Shear Strength Data of Limestone Rocks by Regression Analysis and ANFIS Model. Advances Geo-Environmental Engineering, Geomechanics and Geotechnics and Geohazards. 1st Springer conference of the Arabian Journal of Geosciences (CAJG-1) Tunisia 2018. 4. Biltayib .M, M. Elhemry, Khulud M. Rahuma.(2010) First Underbalanced Drilling Experience in AGOCO Sarir C- Main Field - LIBYA: Case Study and Hani Qutab, Paco Vieira and Maurizio. Arnone, Weatherford International (SPE/IADC 130562). 5. Biltayib. Misbah, Sadeq Damrah, Bushrah Al-Fakeh, Ashwaq Al-Kanderi. Australian University (AU); (2015)., Validation of Directional Drilling Well Design Trajectory with a Case Study in Kuwait. International Conference on Sustainable Mobility Applications, Renewables and Technology (SMART) 6. Khulud.M. Rahuma, Al-Fateh University (Libya)., M.Elhemry, Al-Fateh University(Libya)., Biltayib .Misbah, , National Oil Corporation (Libya): underbalanced Drilling: remedy for formation Damage ,Lost Circulation and other related conventional drilling problems in sarir fieldUNDER-balanced.;.Jordan international Energy Conference –Amman 2011. 7. Biltayib M. Biltayib, (NOC)Khulud M. Rahman, University of Tripoli,2014 Impact of Various techniques performance on well cost of difference on well cost of different reservoir type. 2014 MPC bi-annual Technical Conference and Exhibition held in Istanbul-Turkey 14-16 October 2014. 8. Jan Bongaerts and Biltayib, Misbah – 2005, Managing Oil Waste Using International Standardization ISO 14001, Poster at TU Bergakademie Freiberg, Germany. 9. Biltayib, M and Zhang Yanking .2007Improving Environmental Management Systems for Libyan Oil Companies – China.
University Service including committee Membership:	<ul style="list-style-type: none"> - Mediterranean council for oil and gas (MEDCOG) - Libyan oil and gas association (LOGA) - Advisor of SPE Chapter at AU from 2015 - 2017. - Member of committee for development plan of Waha field in 2013 - Committee chairman for Drilling Rigs Evaluation at Libyan NOC from 2010 to 2014.
University Committees:	<ul style="list-style-type: none"> - Departmental Council - Advisor of SPE Chapter at AU from 2015 - 2017. - Departmental Lab committee - Departmental PBL committee - Curriculum committee