

<u>Curriculum Vitae</u> <u>Of</u> <u>Berihun Mamo Negash</u>

Personal information			
First name / Surname	Berihun Mamo Negash		
Address	Petroleum Engineering Department, Universiti Teknologi PETRONAS 32610 Seri Iskandar, Perak Darul		
	Ridzuan, Malaysia		
Telephone(s)	Office: +60 5-368 7109 Mobile: +6 016 9280406		
E-mail	<u>bmamo.negash@utp.edu.my</u> , <u>negash@alumni.ntnu.no</u>		
Nationality	Ethiopian		
Date of birth	Jan, 07 1982		
Gender	Male		
Language	Amharic, English		
Education			
Dates	January 2013 – To date		
Title of qualification	PhD in Chemical Engineering (expected date of completion – February 2017)		
Principal subjects/occupational	- Thesis title "Development of a system identification based proxy model of a hydrocarbon reservoir"		
skills covered	- System identification, Fluid flow , reservoir simulation, computational Methods		
Name of university	Universiti Teknologi PETRONAS, Chemical Engineering Department-Perak, Malaysia		
Dates	August 2006 – September 2008		
Title of qualification awarded	MSc Degree in Petroleum Engineering, Specializing in Reservoir Engineering		
Principal subjects/occupational	- Thesis title "Investigation of CO ₂ Enhanced Field Projects" A research that investigates physical		
skills covered	and chemical characteristics of oil fields in relation to injection of carbon Dioxide.		
	- Fluid flow , reservoir modelling and simulation, computational Methods, Reservoir Recovery techniques,		
Name of university	Norwegian University of Science and University, Department of Petroleum Engineering and applied		
	Geophysics-Trondheim , Norway		
Dates	September 1999 – June 2004		
Title of qualification awarded	BSc. Degree In Chemical Engineering		
Principal subjects/occupational	- Final Year Project Title "Design and analysis of Evaporative Cooler made from clay" A project that		
skills covered	developed a clay cooler which works with only natural deriving force, and is in use in rural villages		
	in Ethiopia.		
	- Basic chemical Engineering Concepts, such as mass and heat transfer, unit operations,		
	thermodynamics, Flash calculations and many more		
Name of University	Bahir Dar University-Chemical Engineering Department- Bahir Dar, Ethiopia		
Work experience			
Dates	October 2013 – to date		
Occupation or position held	Lecturer		
Main activities and responsibilities	Lecturing, supervision, coordination and Research		
Name and address of employer	Universiti Teknologi PETRONAS, Petroleum Engineering Department, 32610 Seri Iskandar, Perak		
	Darul Ridzuan, Malaysia		
Type of business or sector	Education		
Dates	September 2008 – December 2012		
Occupation or position held	Senior Lecturer		

Main activities and responsibilities	Lecturing different courses and Advising Final Year Projects for undergraduate students studying		
	chemical Engineering, Petroleum Engineering, Food and Biochemical Technology, and Industrial		
	Chemistry, taking part in community services, preparing hand outs, evaluating performances of		
	students, coordinating lab classes and research and Development.		
Name and address of employer	Bahir Dar University, P.O.Box 26, Bahir Dar-Ethiopia		
Type of business or sector	Education		
Dates	September 2008 – December 2012		
Occupation or position held	Part time Lecturer		
Main activities and responsibilities	Lecturing Petroleum Engineering courses and Supervision of final year projects		
Name and address of employer	Mekelle University, Mekelle-Ethiopia		
Type of business or sector	Education		
Dates	June 2005- August 2006		
Occupation or position held	Assistant Lecturer		
Main activities and responsibilities	Assisting tutor classes for undergraduate students studying chemical Engineering, Food and		
	Biochemical Technology, and Industrial Chemistry, preparing hand outs, evaluating performances of		
	students, taking part in community services, research and Development.		
Name and address of employer	Bahir Dar University, P.O.Box 26, Bahir Dar-Ethiopia		
Type of business or sector	Education		
Dates	June 2004- June 2005		
Occupation or position held	Graduate Assistant II		
Main activities and responsibilities	Assisting tutor classes for undergraduate students studying chemical Engineering, Food and		
	Biochemical Technology, and Industrial Chemistry, preparing hand outs, evaluating performances of		
	students, taking part in community services, research and Development.		
Name and address of employer	Bahir Dar University, P.O.Box 26, Bahir Dar-Ethiopia		
Type of business or sector	Education		
Administrative Position			
Dates	December 2015 - To date		
Occupation or position held	Software coordinator		
Main activities and responsibilities	Record and monitor all software available in petroleum engineering department and ensure the usage.		
	Communicate with software developing companies for license renewal and obtain new licences.		
Name and address of employer	Petroleum Engineering Department, Universiti Teknologi PETRONAS		
Type of business or sector	Education		
Dates	February 2012 - December 2013		
Occupation or position held			
	Course Chairperson for Energy and Environment sub section		
Main activities and responsibilities	Responsible for all courses and Projects related to energy and Environment		
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Duration	1 doug	
	4 days	
Principal subjects/occupational	Oil and gas project management	
skills covered		
Name of Institution	Total Professeurs Associes	
Dates	13 and 14 January 2014	
Duration	2 days	
Principal subjects/occupational	Effective education delivery workshop	
skills covered		
Name of Institution	Universiti Teknologi PETRONAS	
Dates	8 and 9 April 2014	
Duration	2 days	
Principal subjects/occupational	The art of writing publishable scientific manuscript and beyond	
skills covered		
Name of Institution	Universiti Sains Malaysia	
Dates	7-11 April 2014	
Duration	5 days	
Principal subjects/occupational	Petrel reservoir engineering workflow	
skills covered		
Name of Institution	Schlumberger	
Dates	29 September 2014 – 2 October 2014	
Duration	4 days	
Principal subjects/occupational	Problem Solving and Decision Making	
skills covered		
Name of Institution	PETRONAS Leadership centre	
Dates	March 2015 – June 2015	
Duration	4 months	
Principal subjects/occupational	Reservoir Geomechanics, online course	
skills covered	Treatment and the second secon	
Name of Institution	Stanford University	
Dates	25 and 26 May 2015	
Duration	2 days	
Principal subjects/occupational	Kalman Filter, and Beyond: Understanding state estimation concept	
skills covered	raman i mor, and beyond. Onderstanding state estimation concept	
Name of Institution	Solution 4U Sdn Bhd	
Dates	18 – 21 January 2016	
Duration	4 days	
Principal subjects/occupational	Teaching Methodology and Outcome based Education	
skills covered	readiling wethodology and Outcome based Education	
Name of Institution	Universiti Teknologi Malaysia	
Dates	3 – 6 November 2015	
	4 days	
Duration		
Principal subjects/occupational	Basics in Logging Interpretation and Applications to Petroleum Evaluation	
skills covered	Total Draftagayur Agagira	
Name of Institution	Total Professeurs Associes	
Dates	April 2015 – May 2015	
Duration	4 Weeks	
Principal subjects/occupational	Oil and gas: from Exploration to distribution	
skills covered		
Name of Institution	IFP school, France	
Dates	20 August 2011 – 03 September 2011	
Title of qualification awarded	Certificate for participation; training on experimental methods and statistical tools.	
Principal subjects/occupational	- Designing of Experiments	
skills covered	- Application of the SAS software	

Name of Institution	Bahir Dar University-Institute of Technology Bahir Dar - Ethiopia		
Dates	February 2011		
Title of qualification awarded	Certificate for participation on a 1 day training 'Improving to Teach focussing on Scientific Writing;		
Principal subjects/occupational skills covered	Research Methods and how to publish researches.		
Name of Institution	Addis Ababa University and Engineering Capacity Building Program.		
Software skills and competences	 Windows and Microsoft Office with VBA programming Reservoir Simulators, PETREL, ECLIPSE, tNavigator, CMG MATLAB AND SIMULINK Aspen plus, Aspen HYSYS Design Expert Statgraphics Centurion 		
Course Delivered			
Universiti Teknologi PETRONAS Petroleum Engineering Department	Well Logging and Formation Evaluation, Petroleum Exploration, Reservoir modelling and Simulation, Advanced reservoir simulation, Computational methods, Field Development Project, Petroleum Engineering Thermodynamics		
Bahir Dar University	Lecture	Laboratories	
Chemical Engineering Department	Computational Methods, Mechanical Unit Operation, Chemical Engineering Thermodynamics, Modelling and Simulation Equipment Design, Pinch technology	Computer Programming Mechanical Unit Operation Process Control and instrumentation Reaction Engineering	
Mekelle University	Reservoir Simulation, Natural gas Engineering, Petro	physical Evaluation, Inverse Pro	blems
Earth Sciences Department			
Project Supervision	 Seismic-Driven Facies Modeling And Property Distribution In Reservoir Modeling Assisted History matching by using recursive least square and discrete cosine transform Application of evolutionary algorism for assisted history matching Simulation study of EOR by ASP injection for Berlian East field Simulation study of low salinity water injection for Berlian East field Automatic history matching of the PUNQ-S3 reservoir model using proxy modelling and multi_objective optimization Conceptual framework for using system identification in reservoir production performance A system identification approach for building a forecasting model of a reservoir under secondary recovery Assisted history matching using proxy modelling and recursive least square Formulation of conceptual framework for field development plan in reservoir engineering for Malaysian basin 		
	Secured and completed		
			Funding Body
	Experimental Investigation on the performance of m fracing technology	odified fracing fluid on zipper-	PRF
Research Grants	Investigation on the performance of combined low s polymer/surfactant flooding.	alinity and	UTP-URIF
	- Development of Production Forecasting Model Base Curve Analyses	ed on Residual and Decline	UTP- I-Gen
	- Reservoir Production Forecasting Using Recursive	Least Square.	UTP-STIRF
	Improvement on carbonation drum and binder for m from Agricultural waste.	anufacturing of briquettes	BDU
	Performance Evaluation of Existing Local Edible Oil collaborative research with United Nations Industria (UNIDO) Bahir Dar Edible oil Cluster		UNIDO

	- Design and Implementation of a Biogas Plant at Bahir dar university	BDU	
	- Feasibility Study: "Sandpaper Production around Dejen area, Ethiopia"	BDU	
	- Feasibility Study: "Production of Briquette from combustible municipal solid waste"	BDU	
	On process		
	Design and Analysis of efficient water coalescer using acoustic energy.	YUTP	
	- Quick Performance Evaluation and Sand Prediction of Gas Reservoir using Proxy models	MTJA	
	Negash, B. M. , Ayoub, M. A., Jufar, S. R., & Robert, A. J. (2017). History Matching Using Proxy Modeling and Multiobjective Optimizations. In <i>ICIPEG 2016</i> (pp. 3-16). Springer, Singapore.		
	Ayoub, M. A., Baladram, H. S., & Negash, B. M . (2017). Optimizing Injection-Perforated Layers of Lateral Continuous Shale During Secondary Recovery—A Simulation Approach. In <i>ICIPEG 2016</i> (pp. 27-43). Springer, Singapore.		
Publications	Salim, A. M. A., Negash, B. M ., & Alansari, A. M. A. (2017). A Diagenetic Facies Model for Characterizing Yanan Formation, Ordos Basin, North Central China. In <i>ICIPEG</i> 2016 (pp. 271-278). Springer, Singapore.		
	Berihun M. Negash, Lemma D. Tufa, Ramasamy Marappagounder and Mariyamni Bt. Awang. Performance Prediction of a Reservoir Under Gas Injection, Using Output Error Model. Contemporary Engineering Sciences, Vol. 9, 2016, no. 30, 1479 – 1489, HIKARI Ltd, www.m-hikari.com		
	Negash, B. M ., Tufa, L. D., Marappagounder, R., & Awang, M. B. (2016). Conceptual Framework for Using System Identification in Reservoir Production Forecasting. <i>Procedia Engineering</i> , <i>148</i> , 878-886.		
	Negash, Berihun Mamo, Lemma Dendena Tufa, and M. Ramasamy. "Performance prediction of a reservoir under gas injection using Box-Jenkins model." International Journal of Oil, Gas and Coal Technology 12.3 (2016): 285-301.		
	Ayoub, Mohammed A., Berihun M. Negash , and Ismail M. Saaid. "Modelling Pressure Drop in Vertical Wells Using Group Method of Data Handling (GMDH) Approach." ICIPEG 2014. Springer Singapore, 2015. 69-78.		
Book Edited	ICIPEG 2014: Proceedings of the 3 rd International conference on Integrated Petroleum Engineering and Geosciences, Mariyamni Awang, Berihun Mamo Negash, Nur Asyraf Md Akhir, Luluan Almanna Lubis, Springer Singapore, 2015		
Book Luiteu	ICIPEG 2016: Proceedings of the 4th International conference on Integrated Petroleum Engineering and Geosciences, Mariyamni Awang, Berihun Mamo Negash, Nur Asyraf Md Akhir, Luluan Almanna Lubis, Abdul Ghani Md. Rafek, Springer Singapore, 2017		
References			
-	Senior Lecturer, Dr. Lemma Dendena Tufa, Chemical Engineerng Department PETRONAS: Email lemma_dendena@utp.edu.my	nt, Universiti Teknologi	
	Associate Professor, Dr. Lemma Dendena Tufa, Chemical Engineerng Department, Universiti Teknologi PETRONAS: Email marappagounder@utp.edu.my		
	3. Professor Jon Kleppe, Department Head and Professor of Reservoir Engineering at the Department of Petroleum Engineering and applied Geophysics of NTNU: Email kleppe@ipt.ntnu.no ,		

- **4.** EUR.Eng. Dr. Ralph Lee, Former Assistant Professor of Chemical Engineering, at Bahir Dar University E-mail: ralphnsarah@operamail.com
- 5. Dr. yissaye Kindie, Assistant Professor at the School of Chemical and Food Engineering, IOT-Bahir Dar. P.O.Box 26, Bahir Dar-Ethiopia. Email yissaye@operamail.com
- 6. Dr. Solomon Workneh, Director of the School of Chemical and Food Engineering, P.O.Box 26, Bahir Dar-Ethiopia Email solaw@yahoo.com