

Associate Professor / Dr. Madi Abdullah Naser

Personal Information:

Madi Abdullah Naser

Oil and Gas Engineering Department

- PhD
- Assistant Professor
- Libyan
- Male
- Reservoir & Production
- 31/03/1979 Sebha/Libya



Contact Information:

 **School of Applied Sciences and Engineering / Libyan Academy for Postgraduate Studies.**

Department of Chemical and Petroleum Engineering, Tripoli - LIBYA

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Qualifications:

2001 To 2015 **PhD.** Reservoirs and Production, Department of Oil and Gas Engineering, Mining and Oil and Gas Engineering Department, Bandung Institute of Technology, Bandung, Indonesia.

2009 To 2011 **MSc.** Reservoir and Production, Department of Oil and Gas Engineering, Mining and Oil and Gas Engineering Department, Bandung Institute of Technology, Bandung, Indonesia.

1997 To 2001 **BSc.** Oil and Gas, Department of Oil and Gas Engineering, College of Engineering, Al-Tahadi University, Sirte, Libya.

1976 To 1978 **High Secondary School**, Omar bin Abdulaziz School, Tamanhant, Sebha, Libya.

Invention/Discovery:

2021 **Discovering the Waters of Lake Qabaroun as Chemical Injection (Chemical EOR) to Increase Oil Production from Sedimentary and Carbonate Rocks.**

This discovery was registered in the Industrial Property Office - Industrial Research Center, Tajoura, Tripoli, Libya, under No. (5548/2021) on (4/4/2021).

Apparatus and method for analyzing interfacial properties of oil. KR-20160128554-A.

2015 The equipment and procedures of this patent has been designed and manufactured through collaborative work of Bandung Institute of Technology and Sejong University and has been submitted for patent to an authorized patent office in South Korea. The patent has been issued on 28 April 2015 (P15E136).

Scholarships:

2011 To 2015 **PhD Scholarship, Bandung Institute of Technology, Bandung, Indonesia,**

2013 To 2014 **PhD Scholarship, between Bandung Institute of Technology and Sejong University of Seoul, South Korea.**

Writing and Publishing Scientific Books:

2014 **Formation Damage and Permeability Impairment Associated with Chemical and Thermal Treatments: Future Challenges in EOR Applications.** The book has been published as Chapter 7 "The Contribution of Geosciences to Human Security" edited by Kyoto University and Bandung Institute of Technology and published in 2011 by Logos Verlag, Germany (ISBN 978-3-8325-3113-3).

International Journal:

- 2014** **A Novel Experimental Method to Generate Steam within a Small Optical Cell for Measuring Interfacial Properties.** The Arabian Journal of Science and Engineering, King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia, 2015.
- 2015** **Laboratory Investigation of the Effects of Saturation Steam Properties on Interfacial Tension of Heavy Oil and Steam System Using Pendant Drop Method.** The Journal of Energy and Environment Research; Canadian Centre of Science and Education, Canadian 2015.
- 2016** **A laboratory investigation of the effects of temperature, hardness, surfactants and alkaline on oil recovery from carbonate reservoirs using spontaneous imbibition tests.** The Journal of Fundamentals of Renewable Energy and Applications, Sao Paulo, Brazil, 2016.
- 2016** **Comparative Study of Using Sea-Water for Enhanced Oil Recovery in Carbonate and Sandstone Reservoirs: Effects of Temperature and Aging Time on Oil Recovery.** The Journal of Earth Energy Engineering, Universitas Islam Riau, Indonesia, 2018.
- 2016** **Investigating the effect of steam saturation properties on wettability through contact angle measurement using a novel experimental method.** The International Journal of Applied Engineering Research, Research India Publications, India 2016.
- 2019** **Laboratory Studies of the Phase Microemulsions between Oil, Gaberoun Lake Water, and Surfactant Systems by using Phase Behavior Test.** The International Journal of Engineering and Information Technology, University of Misurata, Libya 2019.
- 2020** **An Experimental Investigation the Optimum of Salinity and Ph of Sea-Water to Improve Oil Recovery from Sandstone Reservoir as A Secondary Recovery Process.** Journal of Petroleum and Geothermal Technology, Department of Petroleum Engineering Universitas Pembangunan Nasional "Veteran" Yogyakarta, Indonesia, 2020.
- 2021** **The use of multiple linear regression technology in controlling the technical specifications of industrial products (predicting the mechanical specifications of the products of the longitudinal rolling factory of the Libyan Iron and Steel Company).** Journal of Pure & Applied Sciences, Sebha University, Sebha, Libya, 2021.
- 2021** **Driving Oil Reservoir Mechanisms Estimation using Material Balance (MBAL Software) "A Case Study of Libyan Oil Fields".** Journal of Pure & Applied Sciences, Sebha University, Sebha, Libya, 2021.
- 2021** **Optimal Forecasting of Resources and Production Capacity of the Libyan Iron and Steel Company to Cover Demand for Its Products.** Journal of Techno (JT), University of Pembangunan Nasional "Veteran" Yogyakarta, Indonesia, 2021.
- 2021** **Comparison of Different Gases Injection Techniques for Better Oil Productivity.** Journal of Petroleum and Geothermal Technology, Department of Petroleum Engineering Universitas Pembangunan Nasional "Veteran" Yogyakarta, Indonesia, 2021

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- Study Influence Arabic Gum on Improved Oil Recovery with Gaberoun Water Leak by Using Spontaneous Imbibition Tests for Sandstone Core Samples.** Journal of Pure & Applied Sciences, Sebha University, Sebha, Libya, 2022.
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- Re-Injection of Formation Water and Sea Water to Increase Oil Recovery from Sandstone Rocks: A Laboratory Experiment Under Room Conditions.** Journal of Pure & Applied Sciences, Sebha University, Sebha, Libya, 2022.
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- Which Type of Water Injection is Able to Give a Higher Oil Recovery Factor "Formation Water or Sea Water"?** Academy journal for Basic and Applied Sciences (AJBAS) special issue # 2 July 2023 (civ. Arch. Bio. Chm. E.mang).
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- Increasing Oil Recovery by Gas Injection for Libyan Carbonate Sedimentary Field (LCSF) by using Eclipse Software,** Journal of Pure & Applied Sciences, Sebha University, Sebha, Libya, 2024.
-
- Evaluation the effect of the Reservoir Rock Permeability in the Gas Injection and Optimizing Oil Recovery Factor by Eclipse Software,** International Science and Technology Journal.
-
- Applying Precedence Rules in Executing Work for the Purpose of Balancing Assembly Lines Using Electronic Tables,** Journal of Pure & Applied Sciences, Sebha University, Sebha, Libya, 2024.
-
- Integrated Production Modelling (MBAL Software) to define the Water Influx Model and Properties of an Aquifer for Libyan Undersaturated Oil Reservoir,** Journal of Pure & Applied Sciences, Sebha University, Sebha, Libya, 2024.
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- Investigation of the effect of the Reservoir Rock Compressibility on Oil Recovery Factor during Gas Injection,** Journal of Pure & Applied Sciences, Sebha University, Sebha, Libya, 2024.
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- Design And Hydrodynamic Performance Analysis of a Marine Water Jet Using SolidWorks and CFD Simulation,** African Journal of Advanced Pure and Applied Sciences (AJAPAS), The National Institute of Higher Education Bani Walid, Libya, 2025
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International Conferences:

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- Steam-Induced Wettability Alteration through Contact Angle Measurement: a Case Study in Duri Field, Indonesia.** The SPE International Heavy Oil Conference and Exhibition held in Kuwait City, Kuwait, 8–10 December 2014.
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- A Success Story in a Plan of Development Study: Increasing Recovery of Sandstone Reservoir by Water Injection in Indonesia.** The Spring Conference held in Sejong University in Seoul, South Korea, 2–4 May 2013.
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- Pendant Drop Method for the Determination and Visualization of Interfacial Tension of Heavy Oil/Steam Under Reservoir Condition.** The Joint Fall Conference of KSMER, KSRM, KSEG, MIRECO, and KNOC held in Phoenix Island Resort in Jeju Island, South Korea, 6–8 November 2014.
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- Investigating the Effect of Saturated Temperature and Pressure on Interfacial Tension Using the Pendant Drop Method.** The Spring Conference of KIGAM held in Daejeon University, Daejeon, South Korea, 17–19 April 2014.
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- A Comprehensive Investigation of WASP Application in Heavy Oil Using Response Surface Methodology.** The SPE International Heavy Oil Conference and Exhibition held in
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Kuwait City, Kuwait, 8–10 December 2014.

- 2016 A Laboratory Investigation of the Effects of Temperature, Hardness, Surfactants, and Alkaline on Oil Recovery from Carbonate Reservoirs Using Spontaneous Imbibition Tests.** The First International Conference on Science and Technology, held in Tobruk University in Tobruk City, Libya, 25–27 September 2016.
- 2018 Improving Recovery from Oil Sandstone Reservoir by Re-inject of Produced Water by Using Eclipse_E300 Software.** The First Scientific Conference on Engineering and Environment, held in Sebha University in Sebha City, Libya, 12– 14 February 2018.
- 2018 Discover of GWLI as chemical flooding using SIT: experiment and analysis on key influence factor for oil recovery improvement.** The Earth and Environmental Science Conference and Exhibition held in Yogyakarta City, Indonesia, Thursday - Friday, 11 - 12 October 2018.
- 2018 Effects of Temperature and Aging Time on Oil Recovery in Carbonate and Sandstone Reservoirs using Sea-Water.** The First Scientific Conference on Engineering and Environment, held in Sebha University in Sebha City, Libya, 12– 14 February 2018.
- 2018 Study of Some of the Petro-physical Properties of the Reservoir Rocks of Oil Wells by Using Well Logging in Nasser and EL-Thady Fields (Sirte Basin - Libya).** The First Scientific Conference on Engineering and Environment, held in Sebha University in Sebha City, Libya, 12– 14 February 2018.
- 2022 Which Type of Water Injection is Able to Give a Higher Oil Recovery Factor "Formation Water or Sea Water.** 1st International Conference on Advanced Research in Engineering and Technology. October 25 & 26 - Yogyakarta, Indonesia.
- 2023 Investigation of the effect of the Reservoir Rock Compressibility on Oil Recovery Factor during Gas Injection,** Sixth International Conference on Science and Technology, held in Sebha University in Sebha City, Libya, September 2023.
- 2024 A Comparative Study of Water and Gas Injection Simulation in Libyan X Field Using Eclipse Software,** The 7th International Conference on Science and Technology, held in Sebha University in Sebha City, Libya, September 2024.
- 2024 Evaluation the Primary Drive Mechanisms and PVT Analysis by using Material Balance Software (MBAL Software) for Intisar "D" Reef Reservoir,** The 7th International Conference on Science and Technology, held in Sebha University in Sebha City, Libya, September 2024.
- 2024 Simulation of Vertical Waterflooding In a Hawaz Reservoir Using Eclipse for Reservoir Pressure Maintenance,** The 7th International Conference on Science and Technology, held in Sebha University in Sebha City, Libya, September 2024.
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Scientific Researches :

- 2010 Reservoir Characterization, Simulation Study, and GGR of Warukin Selatan, Warokin Tengah, and Dahor Fields.** Mining and Oil and Gas Engineering Department, Bandung Institute of Technology, Bandung.
- 2010 Plan of Further Development Study for Meruap Field.** Mining and Oil and Gas
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	Engineering Department, Bandung Institute of Technology, Bandung.
2016	Study of Some of the Petro-physical Properties of the Reservoir Rocks of Oil Wells by Using Well Logging in Nasser and EL-Thady Fields (Sirte Basin - Libya). Oil and Gas Engineering Department, Faculty of Energy and Mining Engineering, Sebha University.
2016	Relative Permeability, Recovery Factor, Breakthrough and Fractional Flow Estimation in Gaberoun Water Flooding (GWF) Using Unsteady State Method. Oil and Gas Engineering Department, Faculty of Energy and Mining Engineering, Sebha University.
2016	Laboratory investigations of the Phase Microemulsion System between Oil and Surfactant, Oil and Gas Engineering Department, Faculty of Energy and Mining Engineering, Sebha University.
2016	A Laboratory Investigation of The Effects of Temperature, Aging Time With Sea Water on Oil Recovery From Carbonate and Sandstone Reservoirs Using Spontaneous Imbibition Tests. Oil and Gas Engineering Department, Faculty of Energy and Mining Engineering, Sebha University.
2017	Improved Oil Recovery by Spontaneous Imbibition of Gaberoun Water with Change pH and Salinity for Short and Long Period of Aging Process for Carbonate and Sandstone Reservoirs. Oil and Gas Engineering Department, Faculty of Energy and Mining Engineering, Sebha University.
2017	Improved Oil Recovery by Spontaneous Imbibition of Gaberoun Water Into Carbonate and Sandstone Reservoir: Effects of "Temperature and Aging Time". Oil and Gas Engineering Department, Faculty of Energy and Mining Engineering, Sebha University.
2018	An experimental investigation the optimum of salinity and ph of sea-water to improve oil recovery from sandstone reservoir as a secondary recovery process. Oil and Gas Engineering Department, Faculty of Engineering, University of Misurata.
2021	Driving Mechanisms Estimation using MBAL Software "A Case Study of Libyan Oil Fields". Oil and Gas Engineering Department, Faculty of Engineering, University of Misurata.
2022	Study Influence Arabic Gum on Improved Oil Recovery with Gaberoun Water by using SIT for Sandstone core Samples, Oil and Gas Engineering Department, Faculty of Engineering, University of Misurata.
2022	Laboratory Investigation of the Impact of Formation Water and Sea Water Injection on Oil Recovery from Sandstone Reservoirs, Oil and Gas Engineering Department, Faculty of Engineering, University of Misurata.
2022	A Laboratory Approach to Evaluate the Efficiency of Formation and Sea Water Injection for Enhancing Oil Recovery at Room Condition in Carbonate Reservoirs, Oil and Gas Engineering Department, Faculty of Engineering, University of Misurata.
2022	Eclipse Software to Evaluate the Gas Injection and Optimize Oil Recovery Factor for Waha Oil Reservoir, Al-Mergib University Faculty of Engineering, Al-khoms.
2022	A Simulation Study of Water and Gas Injection Scenarios for Libyan Intisar "D" Field: A Comparative Study by Using Eclipse Software, Libyan Academy of Graduate Studies, Tripoli - Libya
2023	Integrated Production Modelling (MBAL Software) to define the Water Influx Model and Properties of an Aquifer for Amal Field, College of Engineering Technology, Janzour, Tripoli - Libya

Evaluation the Primary Drive Mechanisms and PVT Analysis by using Material Balance Software (MBAL Software) for Intisar “D” Reef Reservoir , College of Engineering Technology, Janzour, Tripoli – Libya.	
Improving Oil Recovery in Dahra PL-7 Reservoir by Optimizing the Water Injection Rates and Wells Locations by Using Reservoir Simulation ECLIPSE Software , College of Engineering Technology, Janzour, Tripoli – Libya.	
Simulation of Vertical Waterflooding In a Hawaz Reservoir Using Eclipse for Reservoir Pressure Maintenance , College of Engineering Technology, Janzour, Tripoli – Libya.	
The influence of conductivity on the prediction of fractured well production in the Upper - Lower Nubian Sandstone of North Gailo, Libya , Libyan Academy of Graduate Studies. Tripoli – Libya.	
Identification of Reservoir Quality Distribution and Hydraulic Flow Units Using Well Logs on Middle Ordovician Succession; Hawaz Formation – NC186 Concession – Murzuq Basin – SW Libya , Libyan Academy of Graduate Studies. Tripoli – Libya.	
Sedimentology and Reservoir Characteristics of the Paleocene Zelten Formation in Nasser Oil Field Concession 6 Central Sirt Basin –Libya , Libyan Academy of Graduate Studies. Tripoli – Libya.	
Enhancement of Artificial Lift Efficiency Using Integrated Production Modelling (IPM) and Principle Component Analysis (PCA) (Amal Field V-12 Case Study North Area) , Libyan Academy of Graduate Studies. Tripoli – Libya.	
Forecasting Water Cut Using the Kuo and DesBrisay Method :A Case Study of Sarir (L-Field), Arabian Gulf Oil Company , Libyan Academy of Graduate Studies. Tripoli – Libya.	
Reservoir Performance Analysis and Production Forecasting using monte carlo simulation: A Case Study of Wafa Field , Libyan Academy of Graduate Studies. Tripoli – Libya.	
Prediction and Evaluation of the Performance of Seagrass Extract as an Eco-Friendly Inhibitor of Mineral Scale Formation in the Waha Oilfield, Libya , Libyan Academy of Graduate Studies. Tripoli – Libya.	

Experience :

2023 To Now	Head of the Department , Department of Chemical & Petroleum, School of Engineering and Applied Science, Libyan Academy of Graduate Studies, Tripoli, Libya.
2023 To Now	Associate Professor , Department of Chemical & Petroleum, School of Engineering and Applied Science, Libyan Academy of Graduate Studies, Tripoli, Libya.
2020 To 2023	Assistant Professor , Department of Chemical & Petroleum, School of Engineering and Applied Science, Libyan Academy of Graduate Studies, Tripoli, Libya.
2022 To Now	Quality & Performance Coordinator , Department of Chemical & Petroleum, School of Engineering and Applied Science, Libyan Academy of Graduate Studies, Tripoli, Libya.
2018 To 2022	Quality & Performance Coordinator , Oil and Gas Engineering Department, Faculty of Engineering, Misurata University, Misurata, Libya.
2019 To 2022	Assistant Professor , Oil and Gas Engineering Department, Faculty of Engineering, Misurata University, Misurata, Libya.

2018 To 2019	Lecture , Oil and Gas Engineering Department, Faculty of Engineering, Misurata University.
2017 To 2018	Head of the Department , Oil and Gas Engineering Department, Faculty of Energy and Mining Engineering, Sebha University, Sebha, Libya.
2017 To 2018	Director , the Office of Research and Scientific Consultations, Faculty of Energy and Mining, Sebha University, Sebha, Libya.
2015 To Now	Main Member , Research Evaluation Committee at Benghazi University, Benghazi, Libya.
2015 To Now	Chairman , Graduate Program Committee at Sebah University, Sebha, Libya.
2015 To 2018	Lecture , Oil and Gas Engineering Department, Faculty of Energy and Mining Engineering, Sebha University, Sebha, Libya.
2013 To 2014	Researcher , Sejong University, Seoul, South Korea.
2011 To 2013	Assistant Lecturer , Mining and Oil and Gas Engineering Department, Bandung Institute of Technology, Bandung.
2013 To 2014	Assistant Lecturer , Sejong University, South Korea.
2010 To 2015	Assistant Project Manager , Mining and Oil and Gas Engineering Department, Bandung Institute of Technology, Bandung.
2006 To 2009	Drilling Fluid Engineer , Jowef Oil Technology Company, Tripoli, Libya.

Committees and Tasks:

2021	Member , Evaluation Committee for the First Scientific Excellence Competition, Faculty of Engineering, Zawiya University.
2021	Member , Preparatory Committee for the Scientific Conference on Renewable Energy and Its Application, Misurata University, Libya.
2020	Member , Committee to Supervise the Secondary Certificate Examinations for the academic year 2019/2020, Faculty of Engineering, Misurata University, Libya.
2020	Chairman of the Committee , Planning Standard for the Faculty of Engineering, Misurata University, according to the standards of the National Center for Quality Assurance.
2019	Member , Committee to Supervise the Secondary Certificate Exams for the academic year 2018/2019, Faculty of Engineering, Misurata University, Libya.
2018	Member , Preparatory Committee for the First International Conference on Science and Technology, Sebha University, Libya.
2016	Member , Preparatory Committee for the Libyan Universities Meeting of the National Program for University Governance, Sebha University, Sebha, Libya.
2017	Chairman of the Committee , Committee to activate the electronic system of the College of Energy and Mining, Sebha University.
2017	Member and rapporteur , committee for the implementation and follow-up of the project to establish two integrated studios at the university's headquarters in Tripoli, Sebha University, Sebha, Libya.
2019	Member , Preparatory Committee for the Tenth Engineering Day, Faculty of Engineering, Misurata University, Misurata.

Teaching Interests:

- Enhanced Oil Recovery
 - Reservoir Simulation
 - Production Engineering
 - Reservoir Engineering
 - Oil Reservoir Evaluation
 - Reservoir Management
 - Fluid Flow In Porous Media
 - Well Logging
 - Drilling Fluids Lab
 - Reservoir Rocks And Fluids Lab
 - Reservoir Fluid & Rock Properties
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Memberships:

(2013 To Now)	Member, Society of Petroleum Engineers (SPE)
(2018 To Now)	Member of the Editorial Board, Journal of Earth Energy Engineering, Riau Islamic University, Pekanbaru, Riau, Indonesia.
(2018 To Now)	Member of the Editorial Board, Journal of Petroleum and Geothermal Technology, Department of Petroleum Engineering, Pembangunan National University, Yogyakarta, Indonesia.
(2017 To Now)	Member of the Libyan Geologists Society / Southern Region Branch, Sebha, Libya.

Courses/ Training Program:

2019	Capacity Building in Energy Renewable and Sustainability for Libya , Erasmus, Golden Tulip El Mechtele Hotel, Tunisia.
2010	Oil and Gas Surface Facilities Course using HYSYS and OLGA (Total E&P Indonesia, Total Professeurs Associés (TPA) Paris, IFP, and Bandung Institute of Technology).
2010	Reservoir Simulation Course (Total E&P Indonesia, Total Professeurs Associés (TPA) Paris, IFP, and Bandung Institute of Technology).
2009	Drilling Activities Drilling Technics Course (Total E&P Indonesia, Total Professeurs Associés (TPA) Paris, IFP, and Bandung Institute of Technology).
2009	Oil and Gas Development Projects Course (Total E&P Indonesia, Total Professeurs Associés (TPA) Paris, IFP, and Bandung Institute of Technology).
2009	English Language Course , USM University of Science Malaysia, Penang Island, Malaysia.
2006	Oil Engineering Training (National Oil Corporation Libya).
2005	English Language Course , National Oil Corporation, Tripoli, Libya.
2004	Computer Course , National Oil Corporation, Tripoli, Libya.

Honors and Awards:

2015	Graduated with honors for PhD studies, Bandung Institute of Technology, Bandung, Indonesia.
1989	Competition for memorizing a quarter of the Qur'an, Tamanhant Mosque, Sebha.

Personal Skills:

Mother Tongue		Arabic Language			
Other Language	Writing	Speaking		Understanding	
		Spoken Production	Spoken Interaction	Reading	Listening
English Language	Good	Very Good (Test of English as a Foreign Language TOEFL)	Very Good	Very Good	Very Good
Indonesian Language	Good	Very Good Indonesian Local Certificate	Very Good	Very Good	Very Good

Computer Skills:

Microsoft	Word, Excel, PowerPoint, OneNote, OneDrive, Outlook, Teams
Software	ECLIPSE, PIPESIM, Petrel, CMG, and Mbal
Other Skills	Active Listening Communication Interpersonal Skills Leadership Management Skills Problem-Solving Time Management Transferable Skills

Date: 19/09/2025