

CURRICULUM VITAE

NAME: Khalifa M. Abdunaser

FAMILY NAME: Abdunaser **FIRST NAME:** Khalifa

DATE AND PLACE OF BIRTH: 1963, Tegi, Libya.

NATIONALITY: Libyan **SEX:** Male

DATE OF EMP.: 11 / 8 / 1986 **EMP. NO.:** 454

MARITAL STATUS: Married, with five children.

HOME ADDRESS: Ain Zara, Tripoli, Libya.

OFFICE ADDRESS:

1- Libyan Petroleum Institute

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2- National Oil Corporation E-Mail: kabdunaser@noc.ly

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EDUCATION AND QUALIFICATIONS:

1) DEGREES OBTAINED:

2012: Doctor of Philosophy (Structure geology and remote sensing): Department of Earth Sciences, University of Durham, UK.

1992: Master degree from Dundee University (the use of remote sensing in geology applications).

1985: B.Sc. Degree in Geology. University of Al Fateh, Faculty of Science, Department of Geology, Tripoli, Libya.

2) STAFF MEMBER EXPERIENCES:

- PhD holder, gained both theoretical and practical skills necessary to solve sophisticated technical problems.
- About thirty five years' experience in structural geology, GIS, Remote Sensing applications and environmental studies,
- Working in different aspects of satellite image processing and interpretation, (Geology, Environment, forest, road planning, and others).
- Able to offer an extensive in GIS training courses in Geology, Petroleum, Environment and others.

3) CAREER HISTORY

- 2019 so far, the job is project manager for the establishment of an oil pollution laboratory in the Al-Wahat region
- 2019 Up to Date: Technical Advisor, National Oil Corporation
- 2015 Up to 2018: Exploration Manager
- 2012 Up to 2015: Researcher, Exploration Department
- 2008 Up to 2012: PhD Student
- 2007 Up to 2008 Position: Exploration coordinator
- 2002 Up to 2007 Position: Exploration Researcher
- 1997 Up to 2002: Position: Head of geology dept. and remote sensing group.
- 1995: Position: Associate Researcher
- 1991: Position: First Associate Researcher.
- 1988: Position: Assistant Researcher.
- 1986-1987: Trainee in the Remote Sensing Unit, Petroleum Research Centre, Tripoli, Libya.
- 1986 Up to Date: Exploration Department, Petroleum Research Centre, Tripoli, Libya.
- 1992 Up to 1999: Working as a part time with Birouni Remote Sensing centre, Tripoli
- Up to Date: Working a part time as teaching University staff with some Libyan universities.

4) RELEVANT PUBLICATIONS:

- Structural geology,
- Remote Sensing
- GIS and
- Environment (Oil Pollution)

5) RELEVANT PROJECTS:

- Regional geological studies
- Structural Geological Interpretation

- Geology and hydrocarbon Evaluation of the Libyan sedimentary basins
- Photogeologic Investigation
- Oil Pollution Detection and Monitoring by Remote Sensing

6) PUBLICATION FOR THE LAST SIX YEARS:

2022: Abdunaser, K. Oil Pollution Monitoring and Detection Using GIS and Remote Sensing Techniques: A Case Study from Libya. In Springer Nature Switzerland AG 2022 H. A. Zurqani (ed.), Environmental Applications of Remote Sensing and GIS in Libya, https://doi.org/10.1007/978-3-030-97810-5_11

2022: Abdunaser, K. Geotechnical study of contaminated produced water on sandy soil: a case study of Libya. *Arabian Journal of Geosciences* (2022) 15:83

2022: Abdunaser, K.M. The geologic contribution to the mountain slopes instability and its effect on rockfall hazards. A case study to the Zintan road, Libya. (In press) *Geotechnical and Geological Engineering Journal*.

2021: Al-Fandi Muhammad Ali, Abdunaser Khalifa, Kamuka Malik and Suwayd Abd al-Hamid . A study of desertification in the Sabbarta region in northwestern Libya by means of remote sensing technology and geographic information systems (In Arabic), *Journal of Applied Sciences Sabratha* (7), 2021.

2020: Abdunaser, K. Spatio-temporal analysis of oil lake and oil-polluted surfaces from remote sensing data in one of the Libyan oil fields. *Sci Rep* **10**, 20174 (2020). <https://doi.org/10.1038/s41598-020-76992-5>

2020: Abdunaser, K., Bergiq, K. and Saeed, M. Geo-engineering study of the impact of rockfall on the mountain road of Zintan, northwestern Libya (In Arabic). *Journal of Science and Space Technologies, of the Regional Center for Remote Sensing of North Africa (CRTEAN)*. V. 6, 2020

2015: Abdunaser, K.M. and McCaffrey, K.J.W, 2015. A new structural interpretation relating NW Libya to the Hun Graben, W. Sirt Basin based on a new paleostress inversion. *Journal of Earth System Science*, 2015 (Vol. 124, No. 8)

2015: Abdunaser, K.M., 2015. Review of the petroleum geology of the western part of the Sirt Basin, Libya. *Journal of African Earth Sciences* 111 (2015) 76-91.

2015: Abdunaser, K.M. and McCaffrey, K.J.W, 2015. Tectonic history and structural development of the Zallah-Dur al Abd Sub-basin, Western Sirt Basin, Libya. *Journal of Structural Geology* 73 (2015) 33-48

2015: Abdunaser, K.M., 2015. Satellite Imagery for Structural Geological Interpretation in Western Sirt Basin, Libya: Implication for Petroleum Exploration. *Geosciences* 2015, 5(1): 8-25.

2014: Abdunaser, K.M. and McCaffrey, K.J.W, 2014. Rift architecture and evolution: The Sirt Basin, Libya: The influence of basement fabrics and oblique tectonics, *Journal of African Earth Sciences*, 100, p. 203-226.

7) WORKING EXPERIENCE:

Projects:

Sept. 2016 Up to Aug 2020: Comprehensive Environmental Study of Oil & Gas Sector Activities (AL Wahat Area), Libya. For National Oil Corporation

Aug. 08 Up to Des. 2012: PhD Student in Department of Earth Sciences, University of Durham, UK.

Aug. 06 Up to Des. 2007: A regional geological study of the Paleozoic deep plays of the Sirt Basin, Libya phase III Position: Leader of the working group.

Aug. 01 Up to Aug 2005: Regional Investigation (Map sheets production) of north-central Sirt Basin, Libya using Digital Remote Sensing Techniques. For Sirt Oil Company, Libya Position: Leader of Remote Sensing Group.

Aug. 03 Up to June 2004: Libya Area regional study (A new view of Libya,s petroleum basins) with SRK Australian Co.

Oct. 20/01 Up to April 23/02: Structural Geological Interpretation of Landsat TM/ERS SAR Satellite Imagery over the Western Sirt Basin, Libya. Prepared with. W. Insley - Geological Interpretation Manager Infoterra Limited, Leicestershire, LE9 8GZ, UK

1997 Up to 2002: Geology and hydrocarbon Evaluation of Tertiary and Mesozoic rocks western Sirt basin, Libya Position: Leader of Remote Sensing Group.

Dec. 1999: Regional Investigation (Map sheets production) of NE Libya using Digital Remote Sensing Techniques. For Sirt Oil Company, Libya.

1996 Up to 1997: Project of Geology and Petroleum Potential of the Ghadamis Basin, Western Libya, and Re-Evaluation in Light of New Stratagems. Position: Leader of Remote Sensing Group.

Oct. 1994: The Structural Analysis of North-Central Part of Sirt Basin, Libya, Using Remote Sensing, Subsurface and Ground Truth. Libya.

Oct. 1992: Comparison of geological information from computer Enhanced Landsat TM imagery and Aerial-photography in the Jabal Eighee area, south central Libya

Jun 1989: A Preliminary Photogeologic Investigation of the Basement Rocks and Structures of the Southern Part of Jabal Eighee Area, Libya.

8) LOCAL SHORT COURSES, SEMINARS AND CONFERENCES:

22-23, April 2007. Global tectonics and geological time scale by Prof. A. G. Smith from the univesity of Cambridge, UK

19-23 Novmber 2006. Introduction To AGIS I Course by Alkhan CIT Libya Autherized and certified course from ESRI, USA

26-30 Novmber 2006. Introduction To AGIS II Course by Alkhan CIT Libya Autherized and certified course from ESRI, USA

10-14 December 2006. Building Geodatabases I Course by Alkhan CIT Libya Autherized and certified course from ESRI, USA

17-21 December 2006. Building Geodatabases II Course by Alkhan CIT Libya Autherized and certified course from ESRI, USA

24-26 December 2006. Working with ArcGIS Spatial Analyst Course by Alkhan CIT Libya Autherized and certified course from ESRI, USA

27-31 December 2006. Cartography with ArcGIS Course by Alkhan CIT Libya Autherized and certified course from ESRI, USA

28 May 01 Jun. 2000: Internet Course. By Rasied Scientific for Scientific, Eng., Consultancy, Computer, Technical and Managerial Training. Tripoli / Libya.

30 Jan. - 3 Feb. 1999: Special course in Major Aspects of Siliciclastic Sequence Stratigraphy and an Introduction to Carbonate Sequence Stratigraphy. By: Dr. Max Dobson and Dr. Mike Anketell, Petroleum Research Centre, Tripoli, Libya.

16 - 20 Mar. 1997: Formation Evaluation and Geological Applications Seminar. By: Schlumberger Overseas S. A., Libya branch.

26 Feb. - 01 Mar. 1996: Special course in Siliciclastic Sequence Stratigraphy. By: Dr. Max Dobson and Dr. Mike Anketell, Petroleum Research Centre, Tripoli, Libya.

11 - 15 Dec. 1988: Production and Corrosion Log Interpretation. National Oil Corporation, Tripoli, Libya.

9) INTERNATIONAL SHORT COURSES, SEMINARS AND CONFERENCES:

March, 2012: Rift architecture and evolution: The Sirt Basin, Libya. 10th Middle East Geosciences Conference and Exhibition, Bahrain, 4 – 7 March, 2012.

Jan. 2010: The origin and evolution of the Cretaceous northwest Sirt Basin, Libya, based on remote sensing interpretation and well data analysis. Tectonic Studies Group Meeting, 6 – 8 January 2010, University of Birmingham, UK.

Sept. 2004: Two weeks Training course in ERMapper & ERDAS imaging for Geological Exploration, in Infoterra Limited, Leicestershire, LE9 8GZ, UK

16-19 March. 2004: Data Integration GIS and ERMapper , SRK Consulting, Sydney Australia.

13-15 March. 2004: Image processing with Geosoft , SRK Consulting, Sydney Australia.

07-10 March. 2004: Structural Interpretation of geopotential field, SRK Consulting, Sydney Australia

1-4 March. 2004: Modelling of geopotential field data, Encom technology Pty Ltd, Sydney Australia

24-26 Feb. 2004: Structural Interpretation: regional Structures and tectonic Environment, SRK Consulting, Sydney Australia

13 Jun. - 12 Feb. 2000: ER Mapper V 6.0, ArcView and Geological Interpretation Training Course, National Remote Sensing Centre, Hampshire, UK. (Short Course).

01 - 04 Dec. 1997: The Eighth International Symposium, Applications of remote sensing to land use and its environmental impact, Damascus, Syria. (Present paper)

25 - 28 Nov. 1996: The Seventh International Symposium, Applications of remote sensing and assisting systems to comprehensive environmental planning and archaeological detection, Damascus, Syria. . (Present paper)

Sep. 1995: MARISY 95 Symposium, Royal Centre for Remote Sensing, Eifran, Morocco. (Present paper).

Nov. 1996: The geology of Sirt basin Symposium