

Mohamed Abo-isha Kahrwad



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Nationality: Libyan

▶ Personal Details

Date of Birth: 22nd March 1976
Driving License: Yes
Gender: Male
Personal Status: Married

▶ Education

- **Master Degree in Petroleum Engineering, (September 2006-November 2008)** Institute of Petroleum Engineering, Heriot-Watt University, Edinburgh-UK
- **Bachelor in Chemical Engineering (1997- 2002)**
Faculty of Engineering, Al-Merghab University, Al-Khoms-Libya

▶ Key skills

- Master Degree in Petroleum Engineering
 - BSc in Chemical Engineering
 - Languages: Arabic-English
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▶ Softwares

- **Multi-Scale**
- **Squeeze V**
- **Hysys , PetroSim, ChemCad**
- **Prosper, PipSim**
- **OLGA**

▶ Full Time Employment

▶ **Libyan Petroleum Institute (LPI), Tripoli-Libya (February 2004 -October 2008)**

Role: Laboratory Specialist

- Planning for tests and case studies.
- Prepare necessary equipment and apparatus base on the testing requirements or test method.
- Preparation of samples for testing, conducts the test, and prepare the finale test report.

▶ **Libyan Petroleum Institute (LPI), Tripoli-Libya (December 2008 – October 2017)**

Role: Lab. Supervisor

- Planning of routine testing in the laboratory.
- Coordinate with laboratory staff on day to day activities.
- Coordinate case studies and prepare final reports for oil companies.
- Identify training needs of laboratory staff, and arrange for internal and external training programs, conduct training effectiveness evaluation.
- Attend meeting with customer or research work, study, test methods.
- Section goals and strategy planning; develop pricing strategies, balancing firm objectives and customer satisfaction.

▶ **Libyan Petroleum Institute (LPI), Tripoli-Libya (November 2017 – Up to now)**

• **Role: Head of Production Chemistry Department**

- Evaluate team performance and development.
- Suggesting and directing performance enhancements for laboratories work.
- Performance evaluate of instrumentation and operating materials of laboratories to suit client needs.
- Planning and conducting meeting with laboratories supervisors and staff.
- Promote new products and technologies for upcoming projects.
- Tenders evaluation for operating materials, equipments, or maintenance contracts.
- Represent the Company to external entities with regards to the section activities.
- Prepare and develop routine and complex proposals including tests, pricing, and duration to meet customer requirements.

 ▶ **Part Time Employment**

▶ **University of Al-Jabal Al-Gharbi, Faculty of Engineering, Petroleum and Natural Resources Engineering Department, Gharyan-Libya (2012)**

Role : Lecturer

- Teaching of Transport Phenomena and Physical Chemistry.

▶ **University of Al-Refaq, Petroleum Engineering Department, Tripoli-Libya (Fall 2013 up to now)**

Role : Lecturer

- Teaching of Fluid Mechanics.
- Heat transfer.
- Fluid Flow in Porous Media.
- Oilfield Technology (Elective).
- Engineering Thermodynamics.
- Enhanced oil recovery EOR

▶ **University of Al-zawia, Faculty of Engineering, Chemical Engineering Department, Zawia-Libya (Spring & Fall 2014)**

Role : Lecturer

- Teaching of Mass Transfer 1 and 2.

Role : Lecturer

- Refinery.
- Thermodynamics.
- Gas Processing.
- Physical Chemistry.

❖ ► **Publications (Technical Reports & Papers)**

- Case Study of Oilfield Scaling, Ghani Oilfield, Veba Oil Company, 2004-2005.
- Case Study of Water Chemistry and Compatibility, Nafoora Oilfield, AGOCO, 2005.
- Technical Research of Removal and prevention of barium and strontium sulphate in Libyan Oilfields, PRC, 2006.
- Technical Research of Evaluation of scale inhibitors used in Libyan Oilfields, PRC, 2006.
- Technical Paper **"Laboratory Compatibility Tests for Oilfield Brines"** *3rd Technology of Oil and Gas Conference (TOG 2006), Tripoli, Libya.*
- Technical Report **"Flow Assurance and Scale Control (FAST 3)"** Progress Report No.2, Institute of Petroleum Engineering, *Heriot-Watt University, Edinburgh-UK, October 2007.*
- Technical Paper **"Coupled Adsorption/Precipitation of Scale inhibitors: Experimental Results and Modelling"**, *paper SPE 114108, the 9th International Oilfield Scale Conference, Aberdeen, Scotland-UK, 27-28 May 2008.*
- Technical Paper **"Prevention and Inhibition of Barium and Strontium Sulphate Deposition under Oilfield Conditions"**, *the 4th Technology of Oil and Gas Conference (TOG 2008), Tripoli, Libya.*
- Case Study of compatibility between Injection and Formation Waters, Bu-Attifel Oilfield, Mellitah Oil & Gas B.V., (2009).
- Case Study of compatibility between Injection and Formation Waters, 103D & 103E Oilfields, Zueitina Oil Company, (2009).
- Emulsion and sludge compatibility test for acidizing of oil wells, Coil Service Company, (2009).
- Test of Solubility of crushed formation rock for acidizing work-over, Coil Service Company, (2009).
- Case Study of Evaluation of scale inhibitors under reservoir and surface facilities conditions (Static Jar Test & Dynamic Tube Blocking Test), Bu-Attifel Oilfield, Mellitah Oil & Gas B.V., (2009).
- Case Study of compatibility between Injection and Formation Waters, Fidda, Hakim & Dahab Oilfields, Zueitina Oil Company, (2010).
- Technical Paper **"Evaluation of EDTA and DTPA as Barite Scale Dissolver"**, *the 5th Technology of Oil and Gas Conference (TOG 2010), Tripoli, Libya.*

- Case Study of complete water analysis and scaling prediction for NAFORA & SARIR Oilfields, Arabian Gulf Oil Co. AGOCO (2013).
- Case Study of formation and inhibition of calcium carbonate scale in downstream system in BOURI Offshore, Mellitah Oil & Gas Co. (Oil Division), (2015).
- Technical Paper **“Mineral Scales Formation Phenomena due to Incompatibility of Injection/Formation Waters in NF Oilfield, Libya”** 8th EAN-NORM Workshop, 5-7 December 2016, Stockholm, Sweden.
- Evaluation of Demulsifiers used for breaking-off emulsion in oil well A14, Wafa Field, Mellitah Oil & Gas Co. (Gas Division), (2017).
- Halite formation and mitigation in oil well A46, Wafa Field, Mellitah Oil & Gas Co. (Gas Division), (2018).
- Technical Paper **“ Chemical Treatment of Emulsion in Oil Well”**, the 1ST Benghazi International Conference of Oil and Gas (BIEOG 2018), 24-26 October, Benghazi, Libya.
- Technical Paper **“Mineral Scales Formation Phenomena due to Incompatibility of Injection/Formation Waters in NF Oilfield, Libya”** 9th EAN-NORM Workshop, 5-7 December 2018, Katowice, Poland.
- Technical Paper **“Chemical Inhibition of NORM deposits in oil well; squeeze treatment”** NORM-X 2022 Workshop, 9-13 May 2022, Utrecht, Netherlands

▶ Computer Skills

- Highly proficient at MS office (Word, Excel, Power Point, Outlook)
- Internet and email

▶ Interests & Activities

Tennis, reading, and travelling.
