

Hakima A Althalb

Tripoli- Libya

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PROFILE (Environmental Advisor)

With proven twenty-five years experiences in Oil industry and Automotive Business, my principal research interest lies in the field of industrial research where ongoing challenge and variety are assured. I have a particular experience and interest in the industry related research projects and potential experience in environmental studies, Environmental Impact Assessment, Remediation treatment of contaminated sites by petroleum products, Industrial biochemistry, Bioprocess Engineering, Water quality, Biodegradability and Toxicity of Drilling Fluids. Setting climate change police and global warming. Aiming to be able to join an organization wherein I can enhance my knowledge and skills and be considered as one of the contributors in achieving organization goals in which provide me a professional growth and career development.

Have the ability to operate in a management role effectively under pressure, take responsibility and readily to new environments. My research achievements and industry experience enable me to make an immediate contribution to the needs of the business and its customers.

KEY SKILLS

- As a researcher I work with multi disciplines team from environmental sciences, hydrology, geology, GIS, water quality, air quality, and chemistry on carrying research projects.
- Networking and Team working: Negotiating Skills
- Working with Others – Leadership
- Career Management: Marketing my research center and our capability to overcome environmental problems.
- Developed business between my petroleum center and oil companies to provide studies and succeeded in increasing the income of my research center.
- Introduced Innovation research to apply new knowledge effectively.
- Developed good communication with customers and oil companies to make the successful move.

EMPLOYMENT HISTORY

Manger of Environmental Research Department, Petroleum Research Center, Tripoli-Libya 2022 – to date

Head of Environmental Analytical Chemistry, Petroleum Research Center, Tripoli-Libya 2021 – 2022

(Petroleum Research Center is the only petroleum organization providing technical and laboratory services for petroleum and industrial operations, undertakes petroleum and environmental studies, as well as promoting technology transfer in the oil and gas industry

- Approached by management to design a new process to conduct environmental impact assessment to ensure compliance with the environmental regulations delivering the project within the 6-month deadline. Led a team of 17 personnel through the implementation process.
- Recruited and established a new technical team to support the department in laboratories and site studies.
- Developed standards to produce technical proposals, reports to client and technical manager.
- Implemented technical symposiums, workshops, and training courses in the field of drilling fluids management, environmental chemistry, wastewater treatment, waste management.

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Senior Associate Researcher, Petroleum Research Center, Tripoli-Libya

2012 – 2021

- Reduced petroleum contamination levels by 73 % by implementing a new bioremediation technique onsite to remove pollutants.
- Planning, implementing, and evaluating new techniques in trials.
- Oversee the portfolio of ongoing activities and ensure timely and cost-effective completion as well as soundness of results.
- Keeping up to date with scientific and research developments

Biochemistry Unit Supervisor, Petroleum Research Center, Tripoli-Libya

2013 – 2017

- Planned and carried out trials for oil processing sites to control soil contamination.
- Improved techniques for tracking and monitoring of micro-organisms in a range of environments.
- Created lab SOPs and lab safety manual and assisted the laboratories in preparing the purchase orders.
- Designed lab experiments, recording, analysing and interpreting data, static correction calculation, and writing up research findings and producing reports.
- Managed and overseen laboratory work, calibrating and maintaining lab equipment, observing high health and safety standards.

Associate Professor, Libyan Academy, Libya

2014-2021

- Delivered lectures on environmental sciences courses for the school of environmental science and engineering.
- Supervised postgraduate students, assisted with preparing research proposals, design the research experiments, analysis of the lab data, and writing thesis.
- Supervised postgraduate projects in Bioremediation, microbial enhanced oil recovery (MEOR), anaerobic biodegradation of crude oil under methanogenic conditions.

Business Development Manager, Interlink, Libya

2008-2014

Interlink is a student consultancy company, delivering training course and placing students in the universities to undertake English language and postgraduate studies and assist students in making the right career choice.

- Developed business with education organizations and recruited more than 600 students to the UK, US, Canada, and Australia. And passed the assessment to be a recognized student counsellor by Australian education.

Newcastle University, UK

2010-2012

Tutorial Assistant- Newcastle University

Supervisor, National Oil Corporation, Libya

2003-2004

Environment Superintend in the Health, Safety and Environment Department

Environment coordinator, United Nations Environment Programme and NCCC

2003-2004

- Contributed in preparing the initial national report on climate change.
- Attended the OAPEC'S 10th Environment Experts Coordination meeting, organized by Organization of Arab Petroleum Exporting Countries (OAPEC), Cairo, Egypt, 10/2003.

EDUCATION

Phd, Faculty of Sciences, and Engineering, Newcastle University, UK

2008-2012

Phd in Environmental Chemistry 'Laboratory and pilot –scale studies on the remediation of oil contaminated soil.

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Brief Abstract of PhD study: Chemical & Bioremediation as clean up technology (using both laboratories and pilot scale assessment techniques).

MSc, Faculty of Sciences, and Engineering, Newcastle University, UK

2006-2007

MSc in Industrial and commercial biotechnology (Pass with Merit).

Major Subject (Modules): Commercialization of Technology, Modelling and control in bioprocess systems, experimental design, and data analysis; toxicology.

BSc, Faculty of Sciences, and Engineering, Tripoli University, Libya

1995-1996

Major Subject (Modules): General Chemistry 1 &2, Analytical Chemistry, Organic Chemistry, Biochemistry, Ecology, Taxonomy. Physiology, Botany, Microbiology, Environmental Biotechnology.

PROFESSIONAL MEMBERSHIP

SETAC Membership, ID: 196225, May 2012

Society for General Microbiology, May 2012

TRAINING COURSES

- Methane Assessment and Mitigation in Oil & Gas, UNEP's IIMEO, Tunisia **02/2025**
- Advanced Management for Executives, Libya **02/2024**
- Foundation of Geographic Information System, Libya **12/2022**
- Transformational Leadership, Aljhood, Libya **09/2021**
- Introduction to Teaching and Learning in Higher Education (ITLHE) Part A - Focus on demonstrating, UK. **02/2012**
- Communication and dissemination - Scientific Writing, UK **05/2011**
- Career Management: Marketing Yourself, UK **05/2011**
- Knowledge Base (IT) Matlab, UK **06/2011**
- Knowledge base (IT) - Presentation Skills using PowerPoint (PPT), UK **07/2011**
- Research Management, UK **07/2011**
- Working with Others – Leadership, UK **07/2010**
- Advanced Course on Environmental Technologies, Delft University of Technology, the Netherlands. **06/2005**
- Personal Effectiveness: Mapping Your Mind - Creative Note Making for Research HASS, UK **10/2009**
- Polymerase Chain Date Reaction (PCR) Course, Isolation of Genomic DNA from Whole Samples, Amplification, DNA Replication, Inverse PCR, Simple Sequence Repeats, Libya **07/2001**
- OHSAS 18001 Awareness Course "SGS International Certification Services, Libya **08/2003**
- Adobe Photoshop in Graphic Design, and Using Corel Draw in Graphic Design, Libya **05/2006**

WORKSHOPS

- The COP 28 UN Climate Change Conference in Dubai **12/2023**
- Library Workshops: Writing up and End-Note, UK **2011**
- Career Management: Marketing Yourself, UK **05/2011**
- Research Management, UK **07/2011**
- Introduction to Network science: modelling and analysis, UK **2010**
- Communication Skills: Getting Yourself Published, UK **2010**
- Library Workshop: Cutting Edge - Keeping ahead of the crowd,UK **9/2009**
- Strategies and Techniques to Avoid Plagiarism, UK **10/2009**
- Communication Skills: Features of Academic Writing, UK **9/2009**
- IT for Researchers, UK **10/2009**
- Introduction to Research, UK **2009**
- Excel - Producing Charts and Pivot Tables, UK **2009**
- Networking and Team working: Negotiating Skills, UK **2009**

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- Career Management: Making a Successful Career Move (Out of Academic Research), UK **2009**

PROJECT MANAGER

- Environmental Baseline Survey (EBS) & Environmental Impact Assessment (EIA) for concession 103 & Zueitina Terminal, Beicip-Franlab **02/ 2024**
- Environmental Baseline Survey (EBS) & Environmental Impact Assessment (EIA) for North Gialo 6J, NC 98, and Gialo III, Waha Oil Company (WOC), Libya **6/ 2022**
- The Use of Soil Amendment for Remediation, Revitalization and Reuse, Breiga Oil Marketing Company BPMC, Libya **3/2019**

PROJECT SUPERVISOR

- Evaluation of MEOR Technique Application to Libyan Case Study, Bouri Oil Field, **B.Sc.** of Petroleum Engineering, Tripoli University, Libya **6/2022**
- The Effect of Indigenous and Introduced Microbes on Deeply Buried Hydrocarbon Reservoirs (MEOR) **Degree of Master** of Environmental science and Engineering Department, The Libyan Academy **2021**
- The potential use of nitrate for controlling sulphide formation as an ideal Biocide, **Degree of Master** of Environmental science and Engineering Department, The Libyan Academy **9/2019**
- The application of Biological and Chemical Treatment to Enhance Petroleum Hydrocarbon Contaminate Transformation, **Degree of Master** of Environmental science, The Libyan Academy **2015**
- Corrosion of Mild Steel in Injection Water Contaminated with Sulfate – Reducing Bacteria **B.Sc.** Faculty of Chemical Engineering, Tripoli University, Libya **2001**
- Effect of Chloration on Microbial Steel Corrosion **B.Sc.** Project for the Faculty of Chemical Engineering, Tripoli University, Libya **2000**

STUDIES & PROJECTS

- Comprehensive Environmental Study of Oil and Gas Activities at Al- What Area, Libya **1/2020**
- Evaluation & Assessment of the Environmental Impact of Current Disposal Practices of Produced Water at Sirte Oil Fields, SOC **2018**
- Application of a microbiological based tool kit for and optimization monitoring of petroleum hydrocarbon bioremediation: Novel treatment regime (Filed Trail), Libya **8/2007**
- Evaluation of Biocides, Petroleum Products, Petroleum Research Centre, Libya **6/2004**
- Role of Microbial Activity on the Corrosion of 316 L Austenitic Stainless Water Wells Casings and Screens GWA, Libya **07/2002**
- Bioremediation Treatment Studies of a Contaminated Soil by Petroleum Products, Petroleum Research Centre, Libya **02/2001**

PUBLICATIONS

Remediation Approaches to Reduce Hydrocarbon Contamination in Petroleum-Polluted Soil, Appl. Sci. 2023, Vol.11. <https://doi.org/10.3390/> **10/2023**

Failure Analysis of Multi stages Centrifugal Naphtha Pump ISSN 2349-9249, Vol. 10, No. 5. **5/2023**

Characterization of the bacterial community structure and physicochemical properties of produced water from A4 well, north Hamada oilfield in Libya, The Libyan Journal of Science- University of Tripoli Vol. 25, No. 02 (2022) 47-57 **12/2022**

A novel technique to enhance the oil recovery ratio using bacterial species. Appl. Sci. 2021, 11, 10492.

11/2021

Potential of Ozonation and Phytoremediation to Reduce Petroleum Hydrocarbon Levels Remaining After Pilot Scale Soil Bioremediation in REMTECH EUROPE 2020, Ferrari, Italy. **09/2020**

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Potential of Ozonation and Phytoremediation to Reduce Hydrocarbon Levels Remaining after the Pilot Scale Microbial Based Bioremediation (LandFarming) of a Heavily Polluted Soil. World Academy of Science, Engineering and Technology International Journal of Energy and Environmental Engineering Vol:12, No:05, 2018

Optimisation of Biostimulation by Using Different Nutrient Ratios to Improve Bioremediation of Petroleum Contaminated Soil, Petroleum Research Journal. 2018. Vol 23 **07/2018**

Isolation of indigenous hydrocarbon transforming bacteria from oil contaminated soils in Libya: selection for use as potential inocula for soil bioremediation degradation in "FEMS 2017" The 7th Congress of European Microbiologists, Valencia, Spain. **07/2017**

Isolation of indigenous hydrocarbon transforming bacteria from oil contaminated soils in Libya: selection for use as potential inocula for soil bioremediation degradation in International Journal of Environmental Bioremediation & Biodegradation, 2017, Vol.5, No. 1, 8- 17 **03/2017**

Molecular and physiochemical approaches to understanding the ecology of crude oil and refining products degradation in "MedRem2014" Conference Microbial Resource Management for Polluted Marine Environments and Bioremediation Hammamet, Tunisia. **01/2014**

Bioremediation of Sites Contaminated with Varying Concentrations of Hydrocarbon Wastes Associated with Onshore Oil and Gas Production Units in "Technology Oil Gas" Conference TOG 2010, organized by Libyan Petroleum Institute, Tripoli, Libya. **10/2012**

Pilot Scale Application for monitoring and optimization of petroleum hydrocarbon bioremediation in "Technology Oil Gas" Conference TOG 2010, organized by Libyan Petroleum Institute, Tripoli, Libya. **10/2010**

Bioremediation Treatment Studies of A Contaminated Soil by Petroleum Product Using Molecular Techniques, in"Technology Oil Gas" Conference TOG 2008, organized by Libyan Petroleum Institute, Tripoli, Libya. **10/2008**

Effect of Chlorination on Steel Microbial Corrosion Presented at EUROCORR 2003, Budapest, Hungary.

10/2003

Effect of Bacterial Growth Activity on Steel Corrosion Presented at 15TH International Corrosion Congress Conference and Exhibition, Granada, Spain. **09/2002**

Bioremediation Treatment Studies of a Contaminated Soil by Petroleum Products Presented at a Workshop "Treatment and Remediation of Contaminated Soil & Groundwater with Petroleum Products" Tripoli, Libya.

05/2002

Corrosion of Steel in Mixed and Pure SRB Cultures. Presented at Corrosion Conference 2001, Tripoli, Libya.

02/2001

SOFTWARE

BI-2000 is the ideal respirometer available for monitoring microbial metabolism in soil, wastewater, and groundwater.

Bioinformatics software and bioscience data management

SPSS statistics & mat lab software

Aermod Air Dispersion Modelling Software

GIS software.

INTERESTS & HOBBIES (Optional)

Reading and sports. Assisted in delivering lectures, and awareness during the pandemics