

Curriculum Vitae

1-Personal Information

Name Dr. Adel Sharif Hamadi Al-Obaidi
Affiliation Chemical Engineering Department,
(Included Phone and Email) Oil & Gas Refinery Engineering Branch
University of Technology
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Date of Birth 15 June 1965
Place of Birth Baghdad
Nationality Iraqi
Marital Status Married



2-Scientific Rank

Assistant Professor

3-Research Area Interests

- Petroleum Refining and Gas Technology
- Chemical Process Industries
- Emulsion Technology
- Upgrading of Heavy Crude Oil
- Cavitation – Crude Oil Cracking
- Environmental Site Assessment
- Biotechnology
- Nanotechnology

4-Education

Date	Discipline	Degree	Institution	
13 th July 1987	Engineering Technology in Chemical Engineering	B. Sc	University of Technology, Chemical Engineering Department, Baghdad	Final year Project : Nitric Acid Production Plant
8 th Nov.1990	Engineering Technology in Chemical Engineering	M. Sc	University of Technology, Chemical Engineering Department, Baghdad	Thesis Title : Desulphurization of the Flue Gas Generated From Combustion of Fuel Oil Using Desulphurizing Materials
6 th May 2004	Engineering Technology in Chemical Engineering	Ph. D	Kazan State Technological University , Oil and Gas Technology Department, Tatarstan, Russia	Thesis Title : Demulsifiers for Treating Heavy Crude Oils

5-Management Posts

- Registrar of Department 2007-2008
- Head of Chemical and Petrochemical Research Team 2008-to date

6-Scholarships

- Ph.D. scholarship, Kazan State Technological University, Oil and Gas Technology Department, Tatarstan, Russia. 2001-2004

7-Academic Experience

1-Undergraduate Level

- Process Plant Design (1992-2000)
- Chemical Engineering Kinetics and Reaction (2004-2006)
- Chemical Process Industries (2004- to Date)
- Fuel Technology (2006- 2008)
- Petroleum Chemistry (2008-2013)

2-Postgraduate Level

- Transport Phenomena (1992-1993)

8-Employment History

- 1983-1987 Undergraduate Student in the Chemical Engineering Department, University of Technology, Baghdad, Iraq
- 1988-1990 M. Sc Postgraduate Student in the Chemical Engineering Department, Oil and Petrochemicals Branch, University of Technology, Baghdad, Iraq
- 1991-1992 Worked at the ARADET Company (Arab Company for Chemicals Detergents), Biji, Iraq.
- 1992-2000 Worked As Assistant Lecture at the Chemical Engineering Department, University of Technology, and Baghdad, Iraq.
- 2000-2004 Ph.D. Postgraduate Student at the Oil and Gas Technology Department, Kazan State University of Technology, Kazan, Russia.
- 2004-Present Worked at the Chemical Engineering Department, University of Technology, Baghdad, Iraq.

9- Lab Supervision

- Fuel technology
- Petroleum Refining
- Chemical Process Industries

10-License/Certification

- Member of Association of Iraqi Engineers Union •
- Member of the Iraqi Association for Nanotechnology •
- Member of the Yardina Charitable Society (NGO)

11-Skills and Qualifications (Language and Computer)

- Language Abilities: English, Russian, Arabic, Aramaic
- Good Skill in Computer Work and Chemical Engineering Software.

12-Publications/ Books

1- Supervision

1. Study of Octane Number Improvement for Iraq's Gasoline Blend, M.Sc. Thesis 2008
2. Demulsifiers for Simulated Basrah Crude Oil, M.Sc. Thesis 2009
3. Upgrading of Basrah-Kirkuk Blend Crude Oil Through Mechanical-Acoustical Effect and (Labs) as Surfactant, M.Sc. Thesis 2010
4. Upgrading of Heavy Crudes Oil by Solvents, Higher Diploma 2011
5. Regeneration of Used Lubricating Oil by Extraction Method, M.Sc. Thesis 2014

2- Published Research

- 1- M.Sc. Dissertation “Desulphurization of the Flue Gas Generated From Combustion of Fuel Oil Using Desulphurizing Materials”, University of Technology, Baghdad, Iraq, (1990).
- 2- “Desulphurization of the Flue Gas Generated From Combustion of Fuel Oil Using Desulphurizing Materials”, Journal of Engineering and Technology, Vol. 11, No. 9, Baghdad (1992).
- 3- Ph.D. Thesis” Demulsifiers for Treating Heavy Crude Oils”, (in Russian), Russia, (2004).
- 4- “A Study of the Effect Using Mechanical - Acoustic Behavior On Rheological Properties for Heavy Crude Oils”, (in Russian), Proceedings of the XVII Mendeleev's International Conference in General and Applied Chemistry, Vol.4, P.350, Kazan – Russia, (2003).
- 5- “A Study of the Effect Using of Mechanical-Acoustic Behavior On Rheological Characteristic of W/O Emulsion for Heavy Crude Oils”, (in Russian), Science and Technology of Hydrocarbon, Moscow, № 3, (2003).
- 6- “New Composition of Chemical Reagents for Improvement the Rheological Properties for Heavy Crude Oils”, (in Russian), Science and Technology of Hydrocarbon, Moscow, № 4, (2003).
- 7- “Evolution of SO₂ Emission from Residual Fuel Oil Boilers”, the First Environmental Conference, Irbil –Iraq, 30 March 2006.
- 8- “Hydrodynamical Rotary Pulsation Apparatus for Improving Characteristics of Heavy Crude Oil”, Diyala Journal for Applied Researchers”, Vol.4, No.1, 2008.
- 9- “Selective Additives for Improvement of Gasoline Octane Number”, Tikrit Journal for Applied Researchers, No.2, 2010
- 10- “ Demulsifiers for Simulated Basrah Crude Oil” Engineering and Technology Journal, Vol 28, No.1, 2010
- 11- Study the Effect of Glycols Base Cosolvent Additives On Breaking of Crude Oil Emulsion”, Diyala Journal for Applied Researchers, Vol. 3, No. 2, Dec 2010 , Pp 39-52.
- 12- Environmental Assessment of Daura Refinery Site - Evaluation of Hydrocarbon Pollution in the Soil, Engineering and Technology Journal, Vol. 28, No. 20, 2010, Pp 6020.
- 13- Energy and Exergy Analysis of the Crude Oil Fractionation, Engineering and Technology Journal, Vol. 28, No. 20, 2010, Pp6010.
- 14- Evolutionary of Extracting Base Oil Units Efficiency Utilizing Mixed Solvent, First Scientific Conference On Modern Technology in Oil and Gas Refining, 25-27 April 2011, Baghdad, Iraq.
- 15- Microbial Survey for Specific Places of Al-Daura Refinery, First Scientific Conference On Modern Technology in Oil and Gas Refining, 25-27 April 2011, Baghdad, Iraq.
- 16- Bioremediation of Sludge and Application of Bioremediated Products As Biofertilizers in Agriculture, Iradi Technical Review and Professional Skills Development Conference, 1-6 October, 2011 ,Amman, Jordan.
- 17- Phosphate Rock Treatment With Hydrochloric Acid for Increasing P₂O₅ Content, Engineering and Technology Journal. Vol. 30, No. 1, 2012, Pp67
- 18- Upgrading of Basrah-Kirkuk Blend Crude Oil Through Mechanical-Acoustical Effect and (Labs) As Surfactant, Engineering and Technology Journal Vol. 30, No. 16, 2012.

- 19- Upgrading of East Baghdad Resid Crude Oil Using N-Hexane As Solvent., Second Scientific Conference On Modern Technology in Oil and Gas Refining, 14-15 May 2013, Baghdad, Iraq.
- 20- Recycling of An Effluent Soot From Kademia Diesel-Power Plant As A Carbon Source for the Synthesis and Characterization of Nano Carbon, the 4th International Scientific Conference for Nanotechnology &Advanced Materials and Their Applications , ICNAMA 2013, 6-7 November 2013.
- 21- Recycling of An Effluent Soot From Kademia Diesel-Power Plant As A Carbon Source for the Synthesis and Characterization of Nano Carbon, Engineering and Technology Journal Vol. 32, part B, No. 3, 2014

3-Books

- 1- Demulsifiers for Treatment of Heavy Crude Oils, (ISBN 978-3-659-12639-0), LAP Lambert Academic Publishing, GmbH & Co.Kg Germany, 31 Aug. 2012
- 2- Environmental Site Assessment of Al-Daura Refinery, Impact Evaluation and Recommendations for Remediation, Scholar's Press, GmbH & Co.Kg Germany, Nov. 2014.

...4- Patent

1. Ru Patent № 2288777, “Акустический Способ Обработки Жидкотекучих Сред В Роторно-Пульсационном Акустическом Аппарате) -(Acoustical Method for Processing of Flowing Liquids in Rotary Pulsation Apparatus)
[Http://www.Findpatent.Ru/Patent/228/2288777.Html](http://www.Findpatent.Ru/Patent/228/2288777.Html)

13- Continuing Education (as Organizer and Lecturer)

1. Petroleum Refining Course, 5-9 Aug 2006
2. Health, Safety, Security, Environment, and Social Policy Methods in the Petroleum Refineries, 5-9 Sep 2010
3. Summer Training and Future Prospects in the Training of University Students, 12 Oct 2010
4. Health, Safety, Security, Environment, and Social Policy Methods in the Petroleum Refineries, 20-24 Oct 2011
5. Treatment Methods for Breaking of Crude Oil Emulsions in the Petroleum Industries, 11-15 Dec. 2011.
6. Health, Safety, Security, Environment, and Social Policy Methods in the Petroleum Refineries, 11-15 Nov. 2012
7. Fuel and Energy Efficiency Improvements in Power Generation Plant and Petroleum Refineries - Using Rotary Pulsation Apparatus, 24-26 Feb. 2013
8. Treatment Methods for Breaking of Crude Oil Emulsions in the Petroleum Industries, 24-28 May 2013
9. Fuel and Energy Efficiency Improvements in Power Generation Plant and Petroleum Refineries - Using Rotary Pulsation Apparatus, 16-20 Jun 2013
10. Chemical and Biological Laboratory Safety, 27-30 May 2013
11. Treatment Methods for Breaking of Crude Oil Emulsions in the Petroleum Industries, 10-14 Nov 2013
12. Demulsifiers for Breaking of Crude Oil Emulsions, 2-6 Mar 2014
13. Treatment Methods for Breaking of Crude Oil Emulsions in the Petroleum Industries, 9-13 Mar 2014
14. Health, Safety, Security, Environment, and Social Policy Methods in the Petroleum Refineries, 2014
15. Fuel and Energy Efficiency Improvements in Power Generation Plant and Petroleum Refineries - Using Rotary Pulsation Apparatus, 2014
16. Chemical and Biological Laboratory Safety, 2014
17. Demulsifiers for Breaking of Crude Oil Emulsions, 21-25 Sep 2014.

14-Conferences

1. Methods of the University Teaching and Training, Baghdad, 1992
2. Protection of the Environment From Pollution, Baghdad, 1993
3. Proceedings of the XVII Mendeleev's International Conference in General and Applied Chemistry, Kazan–Russia, (2003).
4. the First Environmental Conference, Irbil ,Iraq ,(2006)
5. Petroleum Refining Course of the Iraqi Oil Training Program IOTP – Ministry of Oil. August 5-9, 2006, Dohok, Iraq
6. Designs and Industrial Production - Prospects and Ambition, Baghdad, 2008
7. the Second Environmental Conference, Arbil ,Iraq ,(2006)
8. Efficient Learning With Computers, Baghdad, 2008
9. Summer Training and Future Prospects in the Training of University Students, Baghdad, 2010
10. Systematic Training of the University Students, Baghdad, 2011
11. First Scientific Conference On Modern Technology in Oil and Gas Refining, 25-27 April 2011, Baghdad, Iraq
12. IRDI II Technical Review and Professional Skills Development Conference, 1-6 October, 2011, Amman, Jordan.
13. Workshop On Research Management, October, 2011, Amman, Jordan.
14. Workshop Paper Submitted to the 1th national Scientific Conference for Nanotechnology/Iraqi Association for Nanotechnology, Baghdad, 2012
15. Environmental Management and Technology in the Petroleum Refineries, Baghdad, 2012
16. Second Scientific Conference On Modern Technology in Oil and Gas Refining, 14-15 May 2013, Baghdad, Iraq
17. the 4th International Scientific Conference for Nanotechnology & Advanced Materials and Their Applications , ICNAMA 2013, 6-7 November 2013

15-Contracts

- 1- Design and Investigation the Effect of the Mechanical - Acoustic Machine On Characteristics of Heavy Crude Oil”, (Contract Funding by the Ministry of Higher Education and Scientific Research, Baghdad, 2005).
- 2- Study of Octane Number Improvement for Iraq’s Gasoline Blend. (Contract No. 4498 in 29/3/ 2007, Funding by the Iraqi Ministry of Oil, Daura Refinery, Iraq.
- 3- “Environmental Site Assessment of Al-Daura Refinery, Impact Evaluation and Recommendations for Remediation” (Contract No. 56-07 Funding by Arab Science & Technology Foundation, Approved 2007).
- 4- “Bioremediation of Petroleum Oily Sludge and Application of Bioremediated Products As Biofertilizer in Agriculture”, (Contract No. 115-09 Funding by Arab Science & Technology Foundation, Approved 2010).
- 5- “Preparations of Demulsifiers for Selected Iraqi Crudes”, Contract No. 21-2013 Funding by Ministry of Industry and Minerals, Commission of Researches & Industrial Development, Chemical and Petrochemical Research Center.
- 6- "Improving Combustion Efficiency of Diesel Fuel Using Nano Additives", Contract No. --- Funding by Ministry of Industry and Minerals, Commission of Researches & Industrial Development, Chemical and Petrochemical Research Center (2014).
- 7- "Regeneration of Used Lubricating Oil by Solvent Extraction Method ", (Contract No.8135 in 16/4/ 2014, Funding by the Iraqi Ministry of Oil, Daura Refinery, Iraq.