Name:	Hazim Hassan Al-Attar
Nationality:	Iraq
Date of birth:	June 14, 1951
Phone:	00971 50 5836642
E-mail:	hazim.alattar@uaeu.ac.ae
Address:	United Arab Emirates University College of Engineering Chemical & Petroleum Engineering Department P. O. Box: 15551 – Al Ain UAE

Education

- **Colorado School of Mines**, Golden, Colorado, USA. Ph.D. in Petroleum Engineering, December 1976.
- **University of California at Berkeley**, Berkeley, California, USA. M.Sc. in Petroleum Engineering, July 1973.
- **University of Baghdad**, Baghdad, Iraq, B.Sc. with top honor in Petroleum and Minerals Engineering, June 1971.

Language Qualification

- English.
- Arabic (first language).

Academic Experience & Activities

- **United Arab Emirates University**, Al-Ain, UAE
  Associate Professor of Petroleum Engineering, 2006-present.
- **Al-Fateh University,** Tripoli, Libya
  Associate Professor of Petroleum Engineering, 1991-1998.
- **University of Baghdad**, Baghdad, Iraq
  Head of Petroleum Engineering Department, 1981-1989.
  Assistance Professor of Petroleum Engineering, 1982-1990.
  Lecturer of Petroleum Engineering, 1977-1981.

Courses Taught:

Petroleum Production Engineering, Petroleum Reservoir Engineering, Petroleum Production Operations, Well Logging, Pressure Transient Testing, Natural Gas Engineering, Mechanics of Secondary Recovery, Advanced Natural Gas Engineering, Advanced Reservoir Engineering, Data Analysis in Petroleum Engineering, Economics of Oil Production, Introduction to Petroleum Engineering, Graduation Projects (capstone course), Independent Studies.

	Supervision of M.Sc. Students: ➢ Experimental Study of the Recovery of "Qaiyara" Crude Oil by Heat Injection. ➢ Laboratory Investigation of Matrix Acidizing of the "Mishrif" Formation. ➢ Hydraulics of Artificial Lift in Vertical and Inclined Wells of "East Baghdad" Oil Field. ➢ Multiphase Flow Performance in Wells of "South Rumaila" Main Pay. ➢ Detection of Natural Vertical Fractures in Deep Wells by Well Logging Techniques. ➢ Development of useful Software for Analyzing Production Systems Performance. ➢ Oil Displacement by Low Salinity-Water in a Selected Carbonate Reservoir. ➢ Optimization of CO_2-WAG process in a Selected Carbonate Reservoir. ➢ Contact angle and IFT measurements at elevated temperatures for evaluating wettability in a selected carbonate reservoir in the UAE
	Computer/Software skills: ➢ Hands on experience of industry standard software packages: EPS Wellflo/Fieldflo & PanSys version 2, IHS Energy Group - RAPTOR, PERFORM, & OilWatt/GasWatt, KAPPA Engineering – Saphir, and Schlumberger PipeSim. ➢ Microsoft Office word, Microsoft Office Power Point, and Microsoft Office Excel.
	Continuing Engineering Education Programs: Organized and lectured a dozen of CEEPs in Iraq, Libya, Tunisia, and UAE for Practicing Petroleum engineers, Chemical Engineers and Geologists.
	ABET Accreditation: Heavily involved in the preparation of the 2009 and 2015 ***Self-Study Reports*** inquired by ABET for the accreditation of the petroleum engineering undergraduate program at UAE University.
	Membership of Committees: Actively participated in committees at the university, college and department levels including: *Course Improvement & Outcome Assessment, Curriculum, Textbooks, Peer Evaluation of Teaching, Faculty Outstanding Performance Recognition, Graduate Studies Program, Research, and Industrial Training.*
	Opening the PE Program for Female Students at UAEU Heavily involved in the preparation of a study intended for opening the petroleum engineering program to female students in 2009.
	Funded Research Projects at UAEU: 1. **PRINCIPLE INVESTIGATOR** OF THE INTERNALLY FUNDED PROJECT ENTITLED**:** "AN EXPERIMENTAL STUDY ON SPONTANEOUS CAPILLARY IMBIBITION IN REPRESENTATIVE CARBONATE CORES FROM UAE", PROJECT **# 01-02-7-11/08**. PROJECT IS FUNDED BY UAEU; ***Completed.*** 2. **Co-INVESTIGATOR** OF THE EXTERNALLY FUNDED PROJECT ENTITLED: "EVALUATION OF MOBILIZATION EFFICIENCY IN IOR/EOR FLOODS FOR CARBONATE RESERVOIRS", PROJECT HAS BEEN APPROVED FOR FUNDING BY ABU DHABI NATIONAL OIL COMPANY-UAE; ***Completed..***

	3. **Co-INVESTIGATOR** OF THE INTERNALLY FUNDED PROJECT ENTITLED: "UTILIZATION OF LOCAL (SAROOJ) CLAY IN DRILLING MUD", PROJECT HAS BEEN APPROVED FOR FUNDING BY UAE UNIVERSITY; **Project # 1518-07-01-10**; ***Completed.*** 4. **Co-INVESTIGATOR** OF THE EXTERNALLY FUNDED PROJECT ENTITLED: "EVALUATION OF POTENTIAL OF SMART WATER FLOODING TO ENHANCE OIL RECOVERY FROM ASAB FIELD", PROJECT HAS BEEN APPROVED FOR FUNDING BY ABU DHABI NATIONAL OIL COMPANY-UAE; ***Ongoing***.
Industrial Experience & Activities	➢ Agip Oil Company, Tripoli, Libya ***Part Time Technical Consultant***, Planning Department, 1993-1996. ➢ Waha Oil Company, Tripoli, Libya ***Full Time Senior Engineer Specialist***, Planning Department, 1998-1999. **Tasks Performed:** 1. Design, Field Programming and Analysis of Pressure Transient Tests. 2. Field Programming of PLT Logging and Fluid Sampling. 3. Design of Well Completions, Recommendation and Design of Workover Operations. 4. Support of Ongoing Production Operations involving both downhole and surface equipment; example: Production Equipment Selection and Optimization. 5. Selection and Sizing of ESP's. 6. Conventional Reservoir Engineering Study of a complex-block faulted, highly fractured reservoir.
Commercial Experience	Winter International-Regional Office, Amman, Jordan **Manager & Technical Advisor**, Petroleum Department, 2000-2004. 1- Reviewing, evaluating, and making necessary adjustments of technical specifications of tenders involving the supply of field equipment, machinery, and turnkey projects related to the extractive and processing sectors in the oil industry of Iraq. 2- Sourcing out suitable suppliers and negotiating technical and commercial offers. 3- Following up engineering details and commercial terms of the offers with the client to conclude orders. 4- Executing contracts.
Publications	**Peer Reviewed Journals:** 1. **H. Al-Attar**: "The Effect of Water Influx on Gas Reservoirs", *Al-Muhandis, Journal of the Iraqi Society of Engineers*, Serial 74, 1980. 2. **H. Al-Attar**: "A Simple Design of Hydraulic Fracturing", *Al-Muhandis, Journal of the Iraqi Society of Engineers*, 80, 1981. 3. **H. Al-Attar**: "Prediction of A Fractured Oil Reservoir Performance", *Journal of Petroleum Research,* Petroleum Research Center, Council for Scientific Research, Baghdad, Volume 3, No. 2, 1984. 4. **H. Al-Attar**: "The Combined Effect of Oil Viscocity, Initial Water Saturation and Water Injection Rate on the Performance of Fractured Reservoirs", *Journal of Petroleum Research,* Petroleum Research Center, Council for Scientific Research, Baghdad, Volume 3, No. 2, 1984. 5. **H. Al-Attar** and G. Abdulmajeed: "Revised Bean Performance for East Baghdad Oil Wells," *Journal of SPE Production Engineering*, February 1988, Pages 127-131.

6. **H. Al-Attar** and M. Abdulraaouf: "A Laboratory Investigation on Matrix Acidizing for A Certain Pay Zone in Iraq", *Journal of Petroleum Research*, Petroleum Research Center, Council for Scientific Research, Baghdad, Volume 7, No.2, 1988.
7. **H. Al-Attar,** T. Al-Ani and A. Yaqoub:"An Experimental Study of The Recovery of Qaiyara Crude Oil by Heat Injection", *Al-Muhandis, Journal of the Iraqi Society of Engineers*, Serial 100, 1988.
8. **H. Al-Attar** and A. Abughalia: "A Study of Vertical Multiphase Flow in Some Libyan Oil Wells", *Petroleum Research Journal*, Tripoli, Libya, Volume 7, 1995, Pages 1-30.
9. A. Jafar, I. El-Ageli and **H. Al-Attar**: "Discussion and Comparison of Horizontal-Well Performance in Bouri Field," *Journal of SPE Reservoir Evaluation & Engineering*, **3** (6), December 2000, Pages 567-572.
10. **H. Al-Attar**: "Performance of Wellhead Chokes during Sub-critical Flow of Gas Condensates,"*Journal of Petroleum Science and Engineering*, Volume 60, Issues 3-4, March 2008, Pages 205-212.
11. **H. Al-Attar**: "Guidelines for Developing Gas Reservoirs Associated with Edge-Water Drive," *Journal of Advances in Sustainable Petroleum Engineering Science*, Volume 1, Issue 1 (2009), Pages 103-126.
12. **H. Al-Attar** and S. Al-Zuhair: "Simplified Approach for Predicting Gas Well Performance,"*Journal of Petroleum Science and Engineering*, Volume 65, Issues 1-2, March 2009, Pages 51-61.
13. **H. Al-Attar** and S. Al-Zuhair: "A General Approach for Deliverability Calculations of Gas Wells," *Journal of Petroleum Science and Engineering*, Volume, 67, Issues 3-4, August 2009, Pages 97-104.
14. **H. Al-Attar**: "New Correlations for Critical and Sub-Critical Two-Phase Flow through Surface Chokes in High-Rate Wells," *Journal of SPE Projects, Facilities & Construction*, March 2010, Pages 31-37.
15. **H. Al-Attar**: "An experimental study on spontaneous capillary imbibition in representative carbonate cores from UAE," *Journal of Petroleum Science and Engineering*, Volume, 70, Issues 3-4, February 2010, Pages 320--326.
16. B. Abu-Jdayil and **H. Al-Attar: "**Curriculum Assessment as a Direct Tool in ABET Outcomes Assessment in a Chemical Engineering Programme," *European Journal of Engineering Education*, June 01, 2010, Pages 1-17.
17. **H. Al-Attar** and B. Abu-Jdayil: "Outcomes Assessments of Petroleum Engineering Program at the United Arab Emirates University: A Systematic Approach," *Journal of Advances in Sustainable Petroleum Engineering Science*, Volume 2, Issue 1 (2010), Pages 47-68.
18. **H. Al-Attar**, N. Abu Al-Soof and T. Al-Ani: "A Study of Multiphase Flow in High-Rate Oil Wells," *Journal of Advances in Sustainable Petroleum Engineering Science*, Volume 2, Issue 2 (2011), Pages 175-199.
19. **H. Al-Attar**: "Estimating Average Reservoir Pressure and Well Flow Efficiency in Depletion-Drive Reservoirs," *Journal of Advances in Sustainable Petroleum Engineering Science*, Volume 2, Issue 2 (2011), Pages 219-226.
20. **H. Al-Attar**, M. Elwy and M. Yehia: "Comparison and Discussion of Deliverability Relationships for Gas Wells," *Journal of Advances in Sustainable Petroleum Engineering Science*, Vol. 2 Issue 3 (2011), Pages 263-281.
21. **H**. **Al-Attar**: "Evaluation of Oil Foam as a Displacing Phase to Improve Oil Recovery: A Laboratory Study," *Journal of Petroleum Science and Engineering*, Volume 79, Issue 3 – 4 (2011) 101 – 112.

	22. **H. Al-Attar**, M. Yehia, and M. Elwy:"A Modified Version of the Aziz et al. Multiphase Flow Correlation Improves Pressure Drop Calculations in High-Rate Oil Wells," *Journal of Advances in Sustainable Petroleum Engineering Science*, Volume 5 Issue 2 (2013) 55-67. 23. M. Amin, A. Zekri, R. Almehaideb, and **H. Al-Attar**: "Optimization of CO_2-WAG Processes in a Selected Carbonate Reservoir- Experimental Approach," *International Journal of Engineering Research and Science & Technology*, Volume 2, No.2, May 2013, 1-14. 24. **H. Al-Attar**, M. Yehia, A. Zekri, R. Almehaideb and M. Ghannam: "Low Salinity Flooding in a Selected Carbonate Reservoir: Experimental Approach," *Journal of Petroleum Exploration and Production Technology*," March 17, 2013, 139-149. 25. Abdulrazag Zekri, **Hazim Al-Attar**, Omar Al-Farisi, Reyadh Almehaideb, Essa Georges Lwisa: "Experimental Investigation of the Effect of Injection Water Salinity on the Displacement Efficiency of Miscible Carbon Dioxide WAG Flooding in a Selected Carbonate Reservoir", Journal of Petroleum Exploration and Production Technology, Feb. 2015, DOI 10.1007/s13202-015-0155-0. 26. Jassim Abubacker, **Hazim Al-Attar**, Abdurazak Zekri, Mohammad Jasem Khalifi, Essa Lwisa: "Selection of Smart Water As a Potential EOR Fluid", has been accepted for publication, *Journal of Petroleum Exploration and Production Technology*, 2017. 27. Ilyas Khurshid, **Hazim Al-Attar**, Abdulrahman Alraeesi: "Modeling Cementation and its Effects During Waterflooding", under review, *Journal of Petroleum Engineering and Science*, 2017.
	Books: Co-authored the following books; 1. **H. Al-Attar** and T. Al-Ani: "Oil & Gas Production Engineering-Part I", publisher: University of Mousil, Iraq, 1984. 2. **H. Al-Attar** and H. Al-Najar: "Oil & Gas Production Engineering-Part II, publisher: University of Mousil, Iraq, 1988.
Conferences & Meetings	**1. H. Al-Attar** and G. Abdulmajeed: "Revised Bean Performance for East Baghdad Oil Wells," *SPE Middle East Oil Technical Conference & Exhibition*, Manama, Bahrain, March 11-14, 1985. **2. H. Al-Attar** and G. Abdulmajeed: "The Design of Continuous Flow Gas Lift in East Baghdad Oil Field-Part I: Maximum-Rate Approach", *The First Iraqi Engineering Symposium*, Baghdad, Iraq, December 16-19, 1985. **3. H. Al-Attar** and G. Abdulmajeed: "The Design of Continuous Flow Gas Lift in East Baghdad Oil Field-Part II: Economic-Rate Approach", *The First Iraqi Engineering Symposium*, Baghdad, Iraq, December 16-19, 1985. **4. H. Al-Attar**: "Acid Corrosion Control in Oil Well Tubings", *The First Regional Symposium of Materials Science*, Alexandria, Egypt, December 29-31, 1987. **5. H. Al-Attar**: "Pressure Analysis of Bouri Horizontal Wells", *The 5th International Energy Conference*, Seoul, South Korea, October 18-22, 1993. **6. H. Al-Attar**: "Proposed Correlations for Predicting the Performance of Critical Flow of Oil, Gas and Water Mixtures through Wellhead Chokes of Bouri Wells", *The 4th Mediterranian Petroleum Conference & Exhibition of the International Energy Foundation*, Tripoli, Libya, November 26-29, 1995.

	7. **H. Al-Attar**: "An Approach for Predicting Oil Well Performance-Case Study: Well A-8 in Bu-Attifel Oil Field," *The 6th International Energy Conference-Energex 96*, China, June 03-07, 1996. 8. A. Jafar, **H. Al-Attar,** and I. El-Ajily: "Discussion and Comparison of Performance of Horizontal Wells in Bouri Field," *SPE European Petroleum Conference-Europex 96*, Italy, October 22-24, 1996. 9. **H. Al-Attar**: "Production Forecast of Okema Oil Field", *The 5th Mediterranian Petroleum Conference & Exhibition of the International Energy Foundation*, Tripoli, Libya, November 25-27, 1997. 10. **H. Al-Attar** and S. Al-Zuhair: "A General Approach for Deliverability Calculations of Gas Wells," SPE North Africa Technical Conference & Exhibition, Marrakech, March 12-14, 2008. 11. **H. Al-Attar**: "An experimental study on spontaneous capillary imbibition in representative carbonate cores from UAE," The Tenth Annual UAE University Research Conference held in Al-Ain, UAE, April 13 – 16, 2009. 12. **H. Al-Attar**: "Securing the eco-balance of ASEAN's energy future," ASCOPE, Thailand, November 18-20, 2009. 13. B. Abu-Jdyil and **H. Al-Attar**: "Curriculum assessment as a direct tool in ABET outcomes assessment in a chemical engineering program," 3rd International Symposium in Engineering Education, Ireland, July 01-02, 2010. 14. **H. Al-Attar**, M. Mohamed, and M. Amin: "A Modified Version of the Aziz *et al.* Multiphase Flow Correlation Improves Pressure Drop Calculations in High-Rate Oil Wells," SPE paper #154125 presented in the 2012 Europec incorporated with the 74th EAGE Conference & Exhibition to be held in Copenhagen, Denmark, 4 – 7 June, 2012. 15. M. Amin, A. Zekri, R. Almehaideb, and **H. Al-Attar**: "Optimization of CO_2 WAG Processes in a Selected Carbonate Reservoir- An Experimental Approach," SPE paper #161782 accepted for presentation at the Abu Dhabi International Petroleum Exhibition & Conference held in Abu Dhabi, UAE, 11-14 November 2012. 16. **H. Al-Attar**, M. Mahmoud, A.Zekri, R. Almehaideb, and M.Ghannam: "The Impact of *LoSal*™ on Oil Recovery from a Selected Carbonate Reservoir in Abu Dhabi-An Experimental Approach," SPE paper #164331 accepted for presentation at the SPE Middle East Oil and Gas Show and Exhibition held in Mnama, Bahrain, 10-13 March 2013. 17. **H. Al-Attar**, M. Mahmoud, A.Zekri, R. Almehaideb, and M.Ghannam: "Low Salinity Flooding in a Selected Carbonate Reservoir: Experimental Approach," SPE paper #164788 accepted for presentation in the 75th EAGE Annual Conference & Exhibition incorporating SPE Europec held in London, United Kingdom, 10–13 June 2013. 18. **H. Al-Attar:** "A simple Method For Estimating Average Reservoir Pressure and Well Flow Efficiency in Volumetric Oil Reservoirs," presented in Abu Dhabi Research and Development Conference 2014, Abu Dhabi 24th - 27th February, 2014. 19. **Hazim Al Attar**, Jassim Abubacker, Abdurazak Zekri, Mohammad Jasem Khalifi, Essa Lwisa: "Contact angle and IFT measurements at elevated temperatures for evaluating wettability in a selected carbonate reservoir in the UAE," poster presented at the 30th International Symposium and Exhibition of the Society of Core Analysts held in Snowmass Village, Colorado, USA, 21-26 August 2016.
Membership of Scientific and Professional	➢ Society of Petroleum Engineers ➢ Society of Core Analysts

Societies	
Awards	➢ Distinguished lecturer at the University of Baghdad in year 1985 and 1986. ➢ R & D Lantern Faculty Award, Feb. 2012. ➢ R & D Research Book of Wisdom Award, Feb. 2014.