

CURRICULUM VITAE

Name: Prof. Dr. Yahya H. Khraisha

Academic Rank: Professor

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Education:

Ph.D. Chemical Engineering, 1989, Imperial College of Science & Technology, University of London, London, UK.

M.Sc. Chemical Engineering, 1985, Imperial College of Science & Technology, University of London, London, UK.

B.Sc. Petroleum Refinery Engineering, 1979 (Graduated with **Honors** and rate of appreciation '**Very good**'), Suez Canal University, Faculty of Petroleum and Mining Engineering, Suez, Egypt.

Experience:

Professor: University of Jordan, Amman, Jordan (November 2002-present).

Associate Professor: University of Jordan, Amman, Jordan (August 1997-November 2002).

Assistant Professor: University of Jordan, Amman, Jordan (March 1989-August 1997).

Chairman: Chemical Engineering Department, University of Jordan, Amman, Jordan (Sept. 1999- Sept. 2002).

Director: Arab Council of Training Student of Arab Universities (ACTSAU), (Sept. 2004 – Sept. 2005).

Professor: Al-Balqa Applied University, Amman, College for Engineering Technology (Sabbatical year 2003-2004).

Associate Professor: Al-Balqa Applied University, Amman, College for Engineering Technology (Sabbatical year 1998-1999).

Teaching & Research Assistant: Chemical Engineering Department, University of Jordan, Amman, Jordan (Oct. 1981- Sept. 1984).

Operation Engineer: Jordanian Company of Petroleum Refinery, Zarka, Jordan (Sept. 1979-Sept. 1981).

Chairman: First International Chemical Engineering Conference, University of Jordan 2001.

Chairman: Second International Chemical Engineering Conference, University of Jordan 2010.

Member of Jordan Engineers Association: 1979-present

Visiting Professor: University of King Faisal, College of Engineering, Saudi Arabia, 2015-2017.

Graduate Student Coordinator of Chemical Engineering Department: 2003-2014

Member of Department Graduate Committee: 1997-2010

Chairman of Department Research Committee: 2013/2014

Member of Faculty Library Committee: 2007/2008, 2005/2006

Chairman of Faculty Library Committee: 2009/2010

Member of Faculty Study Plan Committee: 2013-2014

Member of Department Graduate Committee: 2018-2023

Chairman of Department Nomination Committee: 2023-2024

Courses Taught:

1. Fuel & Energy
2. Energy Management and Conservation
3. Process Heat Transfer
4. Thermodynamics I
5. Thermodynamics II
6. Operations of Solid Particulate
7. Petroleum Refining Engineering
8. Chemical Engineering Principles I
9. Chemical Engineering Principles II
10. Advanced Heat transfer (Graduate course)
11. Advanced Particulate Technology (Graduate course)
12. Energy Resources and Conversion (Graduate course)
13. Special Topics (Combustion Engineering; Graduate course)
14. Principles of Safety
15. Heat Transfer Lab.
16. Chemical Engineering thermodynamics lab.
17. Solid Particulate lab.

Supervision:

1. M.Sc. Theses
2. Graduation Projects I & II
3. Practical Projects

Publications:

1. Khraisha Y.H. and Dugwell, D.R., "Thermal Decomposition of Caudon Limestone in A Thermogravimetric Analyzer", Chem. Eng. Res. Des., 67, 48-51(1989).
2. Khraisha Y.H. and Dugwell, D.R., "Thermal Decomposition of Limestone in a Suspension Reactor", Chem. Eng. Res. Des., 67, 52-57(1989).

3. Khraisha Y.H. and Dugwell, D.R., "Effect of water vapor on Calcination of Limestone and Raw Meal in Suspension Reactor", Chem. Eng. Res. Des., 69, part A, 76-78(1991).
4. Khraisha Y.H. and Dugwell, D.R., "Coal Combustion and Limestone Calcination in a Suspension Reactor", Chem. Eng. Science, 47, 993-1006(1992).
5. Hamdan, M.A., Khraisha, Y.H. and Al-Dabbas, M., "Combustion of Shale Oil", Proceedings of the 1st Jordanian Mechanical Eng. Con., Amman, Vol 1, 341-351 (1995).
6. Khraisha Y.H., "Heat Transfer between an Immersed Surface and a Fluidized Bed of Oil Shale and Tar Sand", Int. J. Heat and Technology, 14, 65-69 (1996).
7. Khraisha, Y.H., "Kinetics of Chloroform Extraction of Tar Sand", Int. J. Energy Research, 21, 201-207 (1997).
8. Khraisha, Y.H., "Study of oil Recovery from Jordan Oil Shale", Proceedings of The 5th International Conference on Petroleum, Mining and Metallurgical, Suez Canal University, Suez, Egypt, vol 1, 1-12 (1997).
9. Khraisha, Y.H., "Kinetics of Isothermal Pyrolysis of Jordan Oil Shales", Energy Convers. Mgmt, 39, 157-165 (1998).
10. Khraisha, Y.H., Hamdan M.A., and Qalalweh, 'Direct Combustion of Olive Cake Using Fluidized Bed Combustor', Energy Sources, 21, 319-327(1999).
11. Khraisha, Y.H., 'Study of Extraction and Pyrolysis of Jordan Tar Sand', Int. J. Energy Research, 23,833-839(1999).
12. Khraisha, Y.H., 'Retorting of Oil Shale Followed by Solvent Extraction of Spent Shale: Experiment and Kinetic Analysis', Energy Sources, 22,347-355 (2000).
13. Khraisha, Y.H., 'Flash Pyrolysis of Oil Shales in a Fluidized Bed Reactor', Energy Convers. Mgmt, 41, 1729-1739 (2000).
14. Khraisha, Y.H., 'Intrinsic Kinetics of Isothermal Reaction between Oxygen and Carbonaceous Residue in Retorted Oil Shale', AL-Azhar University Engineering Journal, (Special Issue) Proceedings of Al-Azhar Engineering Sixth International Conference, Cairo, Egypt, Vol 8, 253-264, September 1-4 (2000).

15. Khraisha, Y.H., Hamdan, M.A., and Quibia, J. M., 'Combustion of Spent Lube Oil After Mixing with Kerosene or Diesel', *Energy Sources*, 23, 757-765 (2001).
16. Khraisha, Y.H., and Shabib, I. M., 'Thermal Analysis of Shale oil using Thermogravimetry and Differential Scanning Calorimetry', *Energy Convers. Mgmt*, 43, 229-239 (2002).
17. Khraisha, Y.H., 'Thermal Conductivity of Oil Shale Particles in a Packed Bed', *Energy Sources*, 24, 613-623(2002).
18. Khraisha, Y.H., Iqsoosi N.A. and Shabib, I. M., 'Spectroscopic and Chromatographic Analysis of Oil from an Oil Shale Flash Pyrolysis Unit', *Energy Convers. Mgmt*, 44, 125-134(2003).
19. Badran, A.A., Khraisha, Y.H., Suhaymat, K.A. and Twal, J.M. 'Solar Extraction of Tar Sand Using Hot Kerosene', *Energy Sources*, 27, 559-569(2005).
20. Khraisha, Y.H. 'Batch Combustion of Oil Shale Particles in Fluidized Bed Reactor', *Fuel Processing Technology*, 86,691-706(2005).
21. Husam, M. S. and Khraisha, Y.H., 'Experimental Study on Oil Shale Combustion in a Bubbling Fluidized Bed', 7th Egyptian Syrian Conference on Petroleum and Chemical Engineering, CI-2 track (2007).
22. Al Busoul, M., Khraisha, Y., and A-Alawin, A. "Direct combustion of Oil Shale in a Fluidized Bed Combustor (FBC)", *Second International Chemical Engineering Conference*, Amman, Jordan (2010).
23. Y. H. Khraisha, J. J. Al Asfar & A. A. Radwan, 'Thermal cracking combined with supercritical fluid extraction of Jordanian oil shale', *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, Volume 38, 2016 - Issue 8, 1148-1155.
24. Y. H. Khraisha and J. J. Al Asfar, ' Kinetics of Thermal Decomposition Combined with Toluene Extraction of Oil Shale', *American Journal of Energy Science*, 2016; 2(6): 40-44
25. Khraisha, Y.H., 'Design and Operating Considerations for Oil Shale Fluidized-Bed Combustion System', *American Journal of Energy Science* , 2017; 4(4): 18-27
26. Y. H. Khraisha , J. J. Asfar, A. A. Radwan , 'Characterization of shale oil by spectroscopic and chromatographic techniques', *International Journal of Scientific Research and Innovative Technology*, 2020; Vol. 7 No. 2; 82-96.
27. Y. H. Khraisha, 'Energetic Study on Jordanian Olive Cake and Woody

- Biomass Materials’, Journal of Power and Energy Engineering, 2022, 10, 1-13.
28. Y. H. Khraisha, ‘Thermal Decomposition of Olive-Solid Waste by TGA: Characterization and Devolatilization Kinetics under Nitrogen and Oxygen Atmospheres, Journal of Power and Energy Engineering, 2024, 12, 31-47.
 29. Y. H. Khraisha, ‘Burnout kinetics of tar sand particles in fluidized bed reactor’, under preparation.
 30. Y.H. Khraisha, ‘Oil Shale as an Alternative Energy Source in Jordan’, under preparation.

Current Research:

1. Combustion of Fossil fuels (coal, oil Shale, olive and Date solid residue) in Fluidized Bed Reactor.
2. Mechanism of thermal decomposition (pyrolysis) of solid hydrocarbon fuel.
3. Retorting of oil shale.
4. Heat and Energy applications.
5. Structure analysis and composition of Heavy oils.
6. Tar sand Extraction and supercritical extraction of oil shale.

Award of Prizes, Medals, etc...:

1. Towend Prize (1989) - Annual award for outstanding research in combustion science given from the University of London.
2. University reward for distinguished research work for the academic year 2000/2001. The distinguish research is “Study of Extraction and Pyrolysis of Jordan Tar Sand”.