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BILAL A. AKASH



PERSONAL INFORMATION

Title: Dean of Engineering

Academic Rank: Professor

Date & Place of Birth: 1960, Amman

Nationality: Jordanian

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ACADEMIC QUALIFICATIONS

| Degree | Major | Duration (From-To) | University | Country |
|--------|------------------------|--------------------|------------------------------|---------|
| Ph.D. | Mechanical Engineering | 1988-1992 | Southern Illinois University | USA |
| M.S. | Mechanical Engineering | 1985-1987 | Southern Illinois University | USA |
| B.S. | Mechanical Engineering | 1980-1984 | Southern Illinois University | USA |

TEACHING EXPERIENCE

| Duration | Rank | Institution | Department/Faculty | Country |
|----------------|---------------------|------------------------------|------------------------------|--------------|
| 2021 – Present | Professor | Middle East University | Renewable Energy Engineering | Jordan |
| 2007 – 2011 | Professor | King Faisal University | Mechanical Engineering | Saudi Arabia |
| 2003 – 2012 | Professor | Hashemite University | Mechanical Engineering | Jordan |
| 2001 – 2003 | Associate Professor | Hashemite University | Mechanical Engineering | Jordan |
| 1999 – 2001 | Associate Professor | Qatar University | Mechanical Engineering | Qatar |
| 1998 – 1999 | Associate Professor | Applied Science University | Mechanical Engineering | Jordan |
| 1993 – 1998 | Assistant Professor | Applied Science University | Mechanical Engineering | Jordan |
| 1992 – 1993 | Assistant Professor | Southern Illinois University | Mechanical Engineering | USA |

OTHER EXPERIENCE

| Duration | Rank | Institution | Department/Faculty | Country |
|----------------|-------------------------------------|-----------------------------------|-----------------------------|---------|
| 2021 – Present | Dean | Middle East University | Engineering | Jordan |
| 2020 – 2021 | Vice President for Academic Affairs | American International University | Academic Affairs | Kuwait |
| 2019 – 2020 | Dean | Emirates College of Technology | Engineering | UAE |
| 2013 – 2019 | Dean | AURAK | Graduate Studies & Research | UAE |
| 2011 – 2013 | Dean | Dhofar University | Engineering | Oman |

PUBLICATIONS

JOURNALS

- S. Lalvani, B. Akash, C. Muchmore, J. Koropchak, C. Chavez, P. Rajagopal. Coal liquefaction in lignin-derived liquids under low severity conditions. *Fuel*, Elsevier, 1991, 70, 1433-1438.
- S. Lalvani, B. Akash, C. Muchmore, J. Koropchak, P. Chivate, C. Chavez. Lignin-augmented coal liquefaction under mild reaction conditions. *Energy and Fuels*, AChE, 1991, 5, 347-352.
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- S. Lalvani, P. Rajagopal, B. Akash, C. Muchmore. Liquefaction of newsprint and cellulose in tetralin under moderate reaction conditions. *Fuel Processing Technology*, Elsevier, 1993, 35, 219-232.
- J. Kim, B. Akash, C. Muchmore, J. Koropchak, S. Lalvani. Stability of liquids derived from reaction of coal and lignin. *Fuel Processing Technology*, Elsevier Journal, 1993, 33, 175-190.
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- J. Kim, S. Lalvani, B. Akash. Coliquefaction of coal and black liquor. *Korean Journal of Chemical Engineering*, 1995, 12, 582-585.
- B. Akash, W. O'Brien. The production of activated carbon from a bituminous coal. *International Journal of Energy Research*, John Wiley, 1996, 20, 913-922.
- M. Mohsen, B. Akash. Evaluation of domestic solar water heating system in Jordan using analytic hierarchy process. *Energy Conversion & Management*, Elsevier, 1997, 38, 1815-1822.
- B. Akash, O. Al-Jayyousi, M. Mohsen. Multi-criteria analysis of non-conventional energy technologies for water desalination in Jordan. *Desalination*, Elsevier Journal, 1997, 114, 1-12.
- T. Al-Khalid, N. Haimour, S. Sayed, B. Akash. Activation of olive-seed waste residue using CO₂ in a fluidized-bed reactor. *Fuel Processing Technology*, Elsevier, 1998, 57, 55-64.
- B. Akash, M. Mohsen. Potentials for development of hydro-powered water desalination in Jordan. *Renewable Energy*, Elsevier, 1998, 13, 537-542.
- M. Mohsen, B. Akash. Energy analysis of the steel making industry. *International Journal of Energy Research*, John Wiley, 1998, 22, 1049-1054.
- M. Mohsen, B. Akash. Potentials of wind energy development for water desalination in Jordan. *International Journal of Energy Research*, John Wiley, 1998, 22, 683-690.
- B. Akash, M. Mohsen, O. Osta, Y. Elayan. Experimental evaluation of a single-basin solar still uses different absorbing materials. *Renewable Energy*, Elsevier, 1998, 14, 307-310.
- M. Mohsen, B. Akash. Potentials of wind energy development for water pumping in Jordan. *Renewable Energy*, Elsevier, 1998, 14, 441-446.
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- B. Akash, M. Mohsen. Energy analysis of Jordan's rural residential sector. *Energy Conversion and Management*, Elsevier, 1999, 40, 1251-1258.
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- B. Akash, M. Mohsen. Energy analysis of Jordan's urban residential sector. *Energy*, Elsevier, 1999, 24, 823-831.
- J. Kim, S. Lalvani, B. Akash, C. Muchmore. Coliquefaction of coal and black liquor to environmentally acceptable liquid fuels. *Energy Sources*, Tayler & Francis, 1999, 21, 839-847.
- S. Said, B. Akash. Experimental performance of a heat pipe. *International Communications in Heat and Mass Transfer*, Elsevier Journal, 1999, 26, 679-684.
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- B. Akash, Effect of heat transfer on the performance of an air-standard Diesel cycle. *International Communications in Heat and Mass Transfer*, Elsevier Journal, 2001, 28, 87-95.
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- M. Mohsen, B. Akash. On integrated solar water heating system. *International Communications in Heat and Mass Transfer*, Elsevier Journal, 2002, 29, 135-140.
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- B. Akash, J. Jaber. Characterization of shale oil as compared to crude oil and some refined petroleum products. *Energy Sources*, Tayler and Francis Journal, 2003, 25, 1171-1182.
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- S. Odeh, S. Nijmeh, B. Akash. Performance evaluation of solar-assisted double-tube evaporator heat pump system. *International Communications in Heat and Mass Transfer*, Elsevier Journal, 2004, 31, 190-201.
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- M. Mohsen, B. Akash. Potentials of wind energy development for water pumping in Jordan, 6th International Arabic Solar Energy Conference, 1998, Muscat, Oman.
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- B. Akash, M. Mohsen, J. Jaber. The Jordanian experience in solar energy technologies, Proceedings of World Renewable Energy Congress-VII, 2002, Cologne, Germany.
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- M. Mohsen, B. Akash, J. Jaber, R. Mamlook. Assessment of various residential heating systems using fuzzy sets and AHP methods. The First International Exergy, Energy and Environment Symposium, 2003, Izmir, Turkey.
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Jordan.

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- B. Akash, A. Abu Abdo. Proceedings of the International Engineering Conference on Hot Arid Regions: Challenges, Technologies, and Opportunities, 2010, King Faisal University, Al-Ahsa, Saudi Arabia, ISBN: 9786030800834 (Editor).
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- B. Akash, D. Omarov, E. Shehhi, E. Nuaimi, M. Zaid. Design and Construction of Basin-Type Solar Still. International Conference on Research in Education & Science, 2019, Çeşme, Turkey.

MEMBERSHIPS OF SCIENTIFIC AND PROFESSIONAL SOCIETIES

- Jordan Engineers Association
- American Society of Mechanical Engineers
- International Solar Energy Society

UNIVERSITY COMMITTEES

- Deans Council
- Appointment and Promotion Committee
- Graduate Studies and Research Committee
- Primary Disciplinary Board for Faculty Members
- Scientific Research Council

RESEARCH INTERESTS

- Renewable and Alternative Energy
- Power Cycles
- Solid and Liquid Fuels
- Energy Analysis and Engineering Systems
- Desalination; Heat Transfer