

PROF. MAJED MOALLA ALHAZMY

Professor, Mechanical Engineering Dept., King Abdulaziz University

Education

<i>Degree</i>	<i>Field of Study</i>	<i>Institution</i>	<i>Year</i>
PhD	Mechanical Engineering	Oregon State University	1998
MS	Mechanical Engineering	University of Maryland at College Park	1994
BS	Mechanical Engineering (Thermal & Desalination)	King Abdulaziz University	1990

Academic Experience

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title (Chair, Coordinator, etc.)</i>	<i>Full or Part Time</i>
10/1998	2/2006	King Abdulaziz University	Assistant Prof		FT
2/2006	10/2011	King Abdulaziz University	Associate Prof		FT
10/2011	Now	King Abdulaziz University	Professor		FT

Funded Research Projects and Patents from the Past Five Years

1. Designed testing of a long life durable pads for greenhouses in Saudi Arabia, KAU, 2008.
2. Using Internal Baffles in hollow building brick to reduce external heat penetration (Numerical and Experimental Investigation), KAU, 2010.
3. Development of an Air-Conditioning and Energy Storage Package Module for Use in Schools and Office Buildings in Saudi Arabia, KACST, 2012
4. Boosting Gas Turbine Power During the Hot Humid Climate of the Western Region in KSA, KACST, 2012
5. US Patent, US 8,901,307 Convection Baffles for Hollow Blocks, Jan 2012 .
6. US Patent, US 8,277,614 Multi- stage Flash Desalination Plant with Feed Cooler, Oct 2102

Honors and Awards

1. Golden Medal, Ibtickar 2010, King Abdulaziz & his Companions foundation for Giftedness & Creativity
2. Takreem, King Abdullah Prize for Innovation, 2012

Institutional and Professional Services (*administration, committees, units, etc.*)

1. Member of the college curriculum committee 2008-Now
2. Member of the college of engineering Council Sept 2010-Now
3. Member of the University Scientific Council Sept 2012-Now
4. Member of the college Committee for Scientific research and Higher studies Sept 2009-Now

Principal Publications/Presentations from the Past Five Years

1. **Majed Alhazmy**, “Power estimation for air cooling and dehumidification using exergy analysis”, International Journal of Exergy, 3, (4), 391-401, 2006.
2. G. M. Zaki R.K. Jassim, **M.M. Alhazmy**, “Brayton Refrigeration Cycle for gas turbine inlet air cooling, International Journal of Energy Research, 31, 1292-1306, 2007.
3. **Majed M. Alhazmy**, “Minimum work requirement for water production in humidification-dehumidification desalination cycle”, Desalination, 214, 102-111, 2007.
4. Mansoor Siddique and **Majed Alhazmy** “Experimental study of turbulent single-phase flow and heat transfer inside a micro-finned tube”, International Journal of Refrigeration, 31, 234 – 241, 2008.
5. **Majed M. Alhazmy**, “Feed water cooler to increase evaporation range in MSF plants” Energy, 34, 7-13, 2009.
6. **Majed M. Alhazmy**, “Internal baffles to reduce the natural convection in the voids of hollow blocks”, Building Simulation, 3, 125–137, 2010.
7. **Majed M. Alhazmy**, “Numerical investigation on using inclined partitions to reduce natural convection inside the cavities of hollow bricks”, International Journal of Thermal Sciences, 49, 2201-2210, 2010.
8. **Majed M. Alhazmy**, “Multi stage flash desalination plant with brine-feed mixing and cooling” Energy, 36, 5225-5232, 2011.
9. A. Y. F. Bokhary, **M. Alhazmy**, Nafis Ahmad and A. Albahkali, "Investigations on the Utilization of Ethanol-Unleaded Gasoline Blends on SI Engine Performance and Exhaust Gas Emission" International Journal of Engineering and Technology, 14, 88-96, 2014.

Recent Professional Development Activities (*Workshops, training, etc.*)

1. Workshop Nanotechnology: towards future horizons , June 2008, KAU
2. How to Develop Test questions May 2010 KAU
3. Teachers’ Leadership and Students’ Motivation, March 2009, KAU