

Bashria Abdrubalrasoul Abdalla Yousef

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Professional Profile

Bashria worked as a designer and consultant Engineer for the HVAC system in Arab Consulting Engineers (Cairo, Egypt) and Dar Consult (Khartoum, Sudan) respectively. While her work with Dar Consult in Sudan she also worked as a lecturer on part time basis in the Department of Mechanical Engineering, Faculty of Engineering, University of Khartoum. In 2001 she held a lecturer position in the Department of Mechanical Engineering. On August 2002 she got scholarship to University Putra Malaysia, Faculty of Engineering, Department of Mechanical and Manufacturing Engineering for obtain PhD. Degree. Her PhD. research was concern with the developing an internet-based mathematical model, which was able to predict the thermal performance and cost effectiveness for different types of solar air heaters. The mathematical model incorporated knowledge and was able to calculate the parameters required to predict the thermal efficiency and the cost effectiveness of solar air heaters.

After she gained her degree in 2007 she worked as Fellow Research in the Alternative Energy Laboratories, Institute of Advanced Technology, University Putra Malaysia (Malaysia). During this period she Performed all Research works, Writing Project Proposal and applying for different grand, helping the Post graduate students in their research and Writing journal papers for publication.

From 2009 up to 2014, she worked in the Department of Mechanical Engineering, Faculty of Engineering and Architecture, University of Bahri (Sudan), during this period she held the position of Deputy Dean in the college. On September 2014 she joined the Basic Engineering Department, College of Engineering, University of Dammam (KSA).

Currently she is an Associate Professor in Sustainable and Renewable Energy Engineering (SREE), College of Engineering, University of Sharjah (UAE).

Personal Data

- **Name:** Basharia Abd Rub Alrasoul Abd Allah Yousef
- **Nationality:** Sudanese
- **Marital Status:** Married
- **Present Position:** Associate Professor
- **Current Employer:** University of Sharjah, College of Engineering, Sustainable and Renewable Energy Engineering (SREE) Department.
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- **Languages:** Arabic, English.

Education

- **PhD.** Mechanical Engineering, Department of Mechanical and Manufacture, Faculty of Engineering, University Putra Malaysia, 2007
Title of Thesis: Development of Mathematical Model to Predict Thermal Performance and Cost Effectiveness for Solar Air Heaters.
- **M.Sc.** Mechanical Engineering, Department of Mechanical Power, Faculty of Engineering, Ain Shams University, 1996
Title of Thesis: Numerical and Electrical Analogy of Fluid Flow and Heat Conduction
- **B.Sc.** Mechanical Engineering, Department of Mechanical Power, Faculty of Engineering, Ain Shams University, 1991
Project Title: An Introduction to Heat Pipe Engine. (**B.Sc.**)

Career Summary

1- September 2016 up to date

Assocaite Professor, University of Sharjah, College of Engineering, Sustainable and Renawable Energy Engineering Department, UAE

2- September 2014 up to 29 August 2016

Assocaite Professor, University of Dammam, College of Engineering, Department of Basic Engineering, Eastern Province, Dammam, Saudi Arabia

3- September 2011 up to September 2014

Deputy Dean, University of Bahri, College of Engineering, Khartoum, Sudan

4- January 2013 up September 2014

Associate Professor, University of Bahri, College of Engineering, Department of Mechanical Engineering, Khartoum, Sudan

5- April 2009 up to 29 January 2013

Assistant Professor, University of Bahri, College of Engineering, Department of Mechanical Engineering, Khartoum, Sudan

6- April 2008 up to April 2009

Research Fellow, Alternative and Renewable Energy Laboratories, Institute of Advanced Technology, Univeriti Putra Malaysia, Serdang, Malaysia

7- February 2001 up to 1 April 2009

Lecturer, University of Juba, College of Engineering, Department of Mechanical Engineering, Khartoum, Sudan. (Study leave on 2003 up to 2007)

8- June 1997- August 2002

Designer and Consultant Engineer, Department of Mechanical Engineering, Air Condition Department, Dar Consult, Khartoum-Sudan

Teaching experience

1. Thermodynamics
2. Fluid Mechanics
3. Heat Transfer
4. Thermal Solar Energy Systems
5. Wind Energy Systems Lab
6. Fluid Mechanics Lab
7. Heat and Mass Transfer
8. Renewable Energy Technologies
9. Service Systems
10. Introduction to Engineering
11. Heating, Ventilation and Air Conditioning Systems

Projects:

Dr Bashria is involved in the following project

- 1) “Design of Solar System for UPM Solar Bowl”. 2008- 2009
- 2) PI of SEED grant “Thermal Performance and Economic Aspect for Nano Fluid Based Direct Absorption Solar Collector” April 2017.

- 3) CI of Competitive research “Demand Response Strategies in Commercial Building in UAE- Case Study- Implementation and Optimization” Submitted Feb. 2017.
- 4) CI of Competitive research “Photovoltaic Generation System Efficiency Enhancement Using Fractional Order Adaptive Control Strategies” Submitted Feb. 2017.

Awards

1. National scholarship for PhD study in Malaysia, September. 2003 to June 2007.
2. Research fellow for the Design of Solar System for UPM Solar Bowl. From the, Institute of Advanced Technology, Univeriti Putra Malaysia, Malaysia. April 2008 to April 2009.
3. Bronze Model- Research, Innovation and commerilization Exhibtion, Malaysia, 2006.

Editorial Board Membership in Journal

- 1- International Journal of Scientific and Engineering Research (**IJSER**)

<http://www.ijser.org/editorial-board.aspx>

- 2- Journal of Basic & Applied Science

<http://www.lifescienceglobal.com/independant-journals/journal-of-basic-and-applied-sciences/editorial-board>

- 3- International Journal of Scientific & Technology Research (**IJSTR**)

<http://www.ijstr.org/editorial-board.php>

- 4- Journal of Basic and Applied Scientific Research (**JBASR**)

<http://www.textroad.com/Editorialboard-JBASR.html>

- 5- Journal of Applied Environmental and Biological Sciences (**JAEBBS**)

<http://www.textroad.com/Editorial%20Board/Editorialboard-JAEBBS.html>

- 6- Journal of Agriculture and Food Technology (**JAFT**)

<http://www.textroad.com/editorialboard-JAFT.html>

Publications

Papers Published in International Journals:

1. **Bashria A.A. Yousef**, M. El-Haj Assad, (2016). Performance and Cost Aspect of Double Pass V-Groove Absorber with and without Porous Media. International Journal of Engineering Research & Technology, 5 (12), p. 196-205.
2. M. Abid, A. Hepbasli, Khalid Saeed. **Basharia Yousef**, Sikandar Khan, Kamran Hameed, (2016). A Review of Exergetic Studies on Solar Collectors and Solar Cooling Technologies for building Applications. International journal of Scientific & Engineering Research. 7 (12), p. 500- 525.
3. **Basharia A. A. Yousef**, Adam N. M, Mohd Saleh M. A. (2013). Evaluation of the Indoor Environmental Quality in Training Workshops. Columbia International Publishing, International Journal of Environmental Pollution and Solutions 1, p. 9-16.
4. **Basharia A. A. Yousef**, Ahmed A. D. Elshareef, Mubarak A. K. Ibraheem, Samer S. Alsayed. (2013). Assessment of Indoor air Quality in Medical Facilities in Sudan. International Journal of Scientific & Technology Research. 2 (1), p 92-95. ISSN 2277-8616
5. **Bashria A.A. Yousef**, Mohamed H. Elsheikh Mohd F. M. Sabri, Hakim S. S. Aljibori, Suhana M. Said. (2012). Effect of Buckling on Glass Fiber/Epoxy Plate. International Journal of Engineering Research and Development, 5(5), p.60-68.
6. **Bashria A. A. Yousef** and Adam N. M. (2012). Performance and cost analysis of double duct solar air heaters. International Journal of Scientific & Technology Research. 1 (6), p 108-116. ISSN 2277-8616.
7. **Basharia A. A. Yousef**, Adam N. M., Mohd Saleh M. A. (2012) Indoor Environmental Quality in Mara Vocational Workshops. International Journal of Engineering Research and Development, 4(6), p. 77-82.
8. M. H. Elsheikh, **B. A. A. Yousef** H. S. S. Aljibori, M. F. M. Sabri, D. A. A. Shnawah. (2012). Effect of Cut-Out on The Buckling Behavior of Carbon Fiber/Epoxy Plate with (0°/90°/0°)S Ply Orientation. Journal of Mechanical Engineering. 63(4) p. 225-238. Slovakia.
9. Cheong YK, Chuah L, NM Adam , **Basharia A. A. Yousef**. (2012). Numerical Simulation of Nitrous Oxide and Carbon Monoxide Abatements in the Catalytic Converter. Advances in Mechanical Engineering and its Applications (AMEA), 3(1), p. 284- 293. United States.

10. Ronak Daghigh, Nor Mariah Adam, Barkawi Sahari, **Basharia A. A. Yousef** (2012) Thermal Comfort Study and Ventilation Evaluation of an office. *Advances in Mechanical Engineering and its Applications (AMEA)*, 3(1), p. 278- 283. United States.
11. Cheong YK, Chuah L, NM Adam , **Basharia A. A. Yousef**. (2012). Prediction of Catalytic Converter Efficiency in Natural Gas Engine for Nitrogen Monoxide and Carbon Monoxide Emission Control. *Advances in Mechanical Engineering and its Applications (AMEA)*, 3(1), p. 268- 277. United States.
12. Ronak Daghigh, N. M. Adam, Barkwi Sahari, **Basharia Yousef**, Mohd Ali (2012) Tracer Decay Method for Determining Ventilation Characteristics of Naturally Ventilated Office. *International Journal of Engineering Research and Development*, 4(6), P. 69-76.
13. **A. A. Yousef Bashria** and N. Mariah Adam (2008). Performance analysis of single and double passes flat plate collector with and without porous media. *Journal of Mechanical Engineering*. 58 (5-6), p 275-290, Slovakia.
14. **BAA Yousef** and NM Adam (2008). Performance analysis for flat plate collector with and without porous media, *Journal of Energy in Southern Africa*. 19 (4), p. 32-42.
15. **Bashria A. A. Yousef** , Adam N. M., K. Sopian, A. Zaharim and M. Alghoul (2007). Analysis of single and double passes V-grooves solar collector with and without porous media. *International Journal of Energy and Environment*. North Atlantic University Union (NAUN) USA. 2 (1), p 109- 114.
16. **Bashria A. A. Yousef** , Adam N. M. (2007). Performance analysis for V-groove absorber. *Suranaree Journal of Science and Technology*. Thailand. 14 (1), p 39-52.
17. **Bashria A. A. Yousef** , Adam N. M., Daud M, Omar H., Megat M. H. (2006). Prediction study on single and double flow solar air heater. *Suranaree Journal of Science and Technology*. Thailand. 13 (2), p 123- 136.
18. **Bashria A. A. Yousef** and Adam N. M (2006). Thermal performance and economic effectiveness for solar air heaters: analysis and expert system developments, *Journal of Energy & Environment*. Bangladesh. 5, p. 45-56.
19. **Bashria A. A. Yousef**, N. M. Adam, M. Daud, H. Omar and M. H. M. Ahmed (2006). Prediction for the thermal performance of flat plate collector using expert system, *Brunei Darussalam Journal of Technology and Commerce*. Brunei. 4(1), p. 26-37.

20. **Bashria, A. A. Y.**, N. M. Adam, S. M. Sapuan, M. Daud, H. Omar, H. M. and F Abas. (2004). Prediction of thermal performance of solar air heaters by internet-based simulation, Part A: Journal of Power and Energy, Proceedings of the Institution of Mechanical Engineers (IMEchE). UK. 218, p. 579-587.
21. **Bashria A.A. Y**, N.M. Adam, M. Daud, H. Omar, M.H.M. Ahmed and S. M. Sapuan, (2004). Criteria for solar drying projects in Malaysia, Journal of Industrial Technology. Malaysia (SIRIM). 13 (4), p. 1-10.
22. **Bashria A. A. Yousef**, N. M. Adam, M. Daud, H. Omar, M. H. M. Ahmed and Elradi A. Musa. (2004).Expert system based prediction of the performance of solar air collectors in Malaysia, Journal of Energy & Environment. Bangladesh. 3, p. 91-101.

Papers Presented in Conference:

1. Suilaiman, M.Y. **Bashria, A.Y.** M. Ali and Adam N.M (2008).Design of tracking system for UPM solar bowl. Seminar on Progress of Solar Energy Research and Development. Pusat Tenaga Malaysia. 21-22 October, P. 29- 41
2. **Bashria A. A. Yousef**, Adam N. M and K Sopian (2007). Analysis of single and double passes with and without porous media for V-groove collector, 9th WSEAS Int. Conf. on Mathematical and Computational METHODS IN Science and Engineering (MACMESE' 07). Trinidad and Tobago, (5-7 November) 130-136. ISSN: 1790-5117 ISBN: 978-960-6766-11-4.
3. **Bashria A. A. Yousef**, N. M. Adam, A. Mutalib Leman (2006). Performance and cost analysis of double flow solar air heaters. Proceeding of the Sixth ISTAED International Conference on European Power and Energy System, Rhodes, Greece, 26-28 June, p. 45-50.
4. NM. Adam and **B. A. A. Yousef** (2004). Passive cooling and solar energy for affordable quality houses. National Conference on Affordable Quality Housing, Miri, Sarawak, Malaysia, 24- 26 November, p. 33-38.

Papers Submitted for Publication and Under Review

- 1- Solar thermal water heating system modeling and performance assessment for building applications. (Submitted to Cogent- Engineering, February 2017)
- 2- Characteristics of osmotic flow with cavitation in porous media (Submitted to International Communications in Heat and Mass Transfer, April 2017)
- 3- Simplified Model for Thermo-and Diffusiophoretic Deposition in Heat a Exchanger. (Submitted to Journal of Thermal Science and Engineering Application, May 2017)