



- 1. Name and Academic rank:** Yasser EL-Samadony, Associate Professor, Full time
- 2. Education: Degrees, discipline, institution and date:**
 - Ph.D., Faculty of Engineering, University of Leeds, UK, 2007
 - M.Sc., Mechanical Power Engineering, Faculty of Engineering, Cairo University, Egypt, 1996
 - B.Sc., Mechanical Power Engineering, Faculty of Engineering, Bairo University, Egypt, 1991
- 3. Work experience**
 - Beirut Arab University, Associate Professor, Seta. 2017 till now, Full time
 - Tanta University, Egypt, Associate Professor, June 2014 to Seta. 2017, full time
 - Tanta University, Egypt, Assistant professor, 2011-2014, full time
 - School of Mechanical Engineering, Bristol University, Bristol, UK, Research visitor, 2010 to 2011, full time
 - Tanta University, Egypt, Assistant professor, 2007-2010, full time
 - University of Leeds, UK, PhD research student, 2002 -2007, full time
 - Tanta University, Egypt, Assistant lecturer, 1996- 2002, full time
 - Tanta University, Egypt, Teaching assistant, 1992-1996, full time
- 4. Honors and Awards:**
 - Tanta University's Incentive Award in Engineering Science, Egypt, 2015
 - Awarded Post-Doctoral Fellowship, Bristol University, UK, funded by Egyptian Ministry of higher education and State for Scientific Research (PAROWN), 2010.
 - Awarded Ph.D. scholarship to Leeds University, UK, funded by Egyptian Ministry of higher education (mission department) 2002.
 - Graduated with Honor distinction degree, 1991.
- 5. Service activities**
 - I)- University activities**
 - 2017 – Present Member of the Faculty's academic Research Committee, BAU.
 - 2017 – Present Member of the Faculty's library Committee, BAU.
 - 2009 –2017 Manager of Mechanical Power Engineering Heat Transfer Laboratory,
Faculty of engineering Tanta, Egypt.
 - 2016-2017 President of postgraduate examination office committee, Faculty of Engineering Tanta, Egypt.
 - 2011 – 2017 Executive Director of Occupational Health and Safety, Faculty of Engineering Tanta, Egypt.
 - 2015 – 2016 Member of the Faculty's academic Research Committee, Faculty of Engineering Tanta, Egypt
 - 2011 – 2016 Unit Manager of Mechanical Power Engineering Services (private Sector), Faculty of engineering, Tanta University, Egypt.
 - 2014 – 2016 Manager of University maintenance center (private sector), Tanta



University, Egypt

- 2014-2016 Vice president of postgraduate examination office committee, Faculty of engineering Tanta, Egypt.
- 2012-2014 A member of postgraduate examination office committee, Faculty of Engineering Tanta, Egypt.
- 2009-2012 Vice executive director of the continuous improvement and Qualification for the faculty accreditation program CIQAP.

II)- Nonacademic activities (fulltime or part time)

- Engineering consulting centre, Faculty of Engineering, Tanta University, Egypt, HVAC and heat transfer Consultant engineer, (2007 – 2017), part time
- Tanta University maintenance unit (private sector), Manager, (2014 – 2016), part time
- Engineering consulting centre, Faculty of Engineering, Tanta University, Egypt, HVAC and heat transfer Consultant engineer assistant , (1996-2002), part time

6. Research Interests

- Heat transfer
- Heat Exchangers
- Heating ventilation and air conditioning
- Water Desalination

7. International Scientific Activities and Research Cooperation

- Academic Reviewer in many high ranked (High Impact factor) Elsevier International journals like, “**Applied thermal Engineering**”, “**Energy and building**”, “**Energy conversion and management**”, “**Energy**”, “**International Journal of Heat and mass transfer**” and “**Renewable & Sustainable Energy Reviews**” , about 62 papers were reviewed.
- Member in the Technical committee of the International Conference on Green Energy and Applications, CGEA 2016 was hold in Singapore during March 23-25, 2016 (<http://www.icgea.org/com.html>)
- Member in the Technical committee of the 4th International Conference on System Engineering and Modeling, ICSEM2015, Roma, Italy, 18 May to 19 May, 2015 (<http://www.icsem.org/com.html>)
- The deputize (CO_PI), of Newton Institutional Links grants, British council, April 2016 call. Institutional Links is between Tanta University (Egypt), University of Liverpool (UK) and four partners.
- Academic supervisor for M.Sc. and P.hD. research students, 10 students were awarded the academic degree during the last 4 years and 6 students in progress.



Current membership in professional organizations

- ESME, Egyptian Society of Mechanical Engineer.
- Egypt Syndicate of engineers, www.eea.org.eg

8. National Research Cooperation

- About five research works were done with member from different university in Egypt, like Alexandria, Mansoura, Kafer el shikh, Suize and Monifiya

9. Principal publications and presentations:

9.1 Journal Publications

- A.E. Kabeel, **Y.A.F. El-Samadony**, M.H. Khiera, Performance evaluation of energy efficient evaporatively air-cooled chiller, Applied Thermal Engineering 122 (2017) 204–213.
- A.S. Abdullah, **Y.A.F. El-Samadony**, Z.M. Omara, Performance evaluation of plastic solar air heater with different cross sectional configuration, Applied Thermal Engineering 121 (2017) 218–223.
- **Y.A.F. El-Samadony**, Wael M. El-Maghlany, A.E. Kabeel, (2016) “Influence of glass cover inclination angle on radiation heat transfer rate within stepped solar still”, Desalination 384 68–77.
- Alsaied Khalil, El-Sayed A. El-Agouz, **Yasser A. F. El-Samadony** & Maisa A, (2016) “Experimental study of silica gel/water adsorption cooling system using a modified adsorption bed”, Science and Technology for the Built Environment (formerly HVAC&R Research Journal, ASHREA), , 22, 41–49.
- Wael M. El-Maghlany, **Y.A.F. El-Samadony** & A.E. Kabeel, (2016) “Glass cover inclination angle effect on the radiation shape factor within conventional solar still” , Desalination and Water Treatment, PP1-9
- A. Khalil, S. A. El-Agouz, **Y. A. F. El-Samadony**, Ahmed abdo, " Solar water desalination using an air bubble column humidifier”, Desalination 372 (2015) 7–16
- S. A. El-Agouz, **Y. A. F. El-Samadony**, A.E. Kabeel, (2015) "Performance evaluation of a continuous flow inclined solar still desalination system”, Energy conversion and management, 101 606–615.
- **Y. A. F. El-Samadony**, B. M. Gibbs and W. Nimmo (2015) ” Simulation of Calcium Chloride Aqueous Salt Solution Spray Regeneration Process”, Atomization and spray, Vol. 25 (7): 571–586
- **Y. A. F. El-Samadony**, A. S. Abdullah and Z. M. Omara (2015) ” Experimental Study of Stepped Solar Still Integrated with Reflectors and External Condenser”, Experimental Heat Transfer, Vol. 28 (4), 2015, PP. 392-404
- **Y. A. F. El-Samadony** and A.E. Kabeel (2014) ” Theoretical Estimation of the Optimum Glass Cover Water Film Cooling Parameters Combinations of a Stepped Solar Still”, Energy Journal , Vol. 68 (2014) PP. 744-750
- **Y. A. F. El-Samadony**, S. A. El-Agouz and AbdElnabyKabeel (2014) ” Theoretical



Performance Comparison of Stepped Solar Still Using Different Nanofluids”, ERJ, Engineering Research Journal, 37(3) 2014, PP. 337-343.

- **Y. A. F. El-Samadony** (2014) ” Effect of adsorption to desorption air mass ratio on the performance of double bed desiccant dehumidification system”, ERJ, Engineering Research Journal, 37(3) 2014, PP. 331-336
- A.E. Kabeel and T. Abou EL maatyand **Y. EL-Samadony** (2013) “The effect of using nano-particles on corrugated plate heat exchanger”. Applied Thermal Engineering 52 (2013) PP 221-229
- **Yasser EL-Samadony**, Ahmed Hamed and AbdElnabyKabeel (2013) “Performance evaluation of single bed desiccant desorption process”, Natural Resources, Vol. 4 (2013), PP 69-75
- **Y.A F. EL-Samadony**, A. M. Hamed and A. E. Kabeel (2013) “Dynamice performance evaluation of single bed desiccant dehumidification system”, International Journal of Renewable and Sustainable Energy, vol. 2, No.1, 2013, PP 18-25
- A.E. Kabeel and T. Abou EL maaty,**Y. EL-Samadony** (2012) “Performance of Corrugated Plate Heat Exchanger Using Nano-Fluid”. Mansoura Engineering Journal, Mansoura University, Egypt, September 2012.
- A. Khalil, S. A. El-Agouz, **Y. A. F. El-Samadony** M. A. Sharaf (2014) ” Performance evaluation of Silica gel/water adsorption cooling unit”, ERJ, Engineering Research Journal, vol. 37 (2), 2014, PP.199-206.

9. 2. Papers Book Section

- Industrial safety, <http://cms.nelc.edu.eg/course/view.php?id=416>
- Applied mechanics, <http://e-learning.tanta.edu.eg/course/view.php?id=19>

9.3. Conference Proceedings

- A.E. Kabeel, **Y.A.F. El-Samadony**, Wael M. El-Maghlany, (2017), Theoretical Performance Comparison of Solar Still Using Different PCM, 20th International Water Technology Conference, IWTC-20, Hurgada, Egypt, 18-20, May 2017.
- Elsaied Khalil, **Yasser A. F. El-Samadony** and Ashgan A. Darwish, (2017), Performance Study on New Shell and Coil Heat Exchanger, 1st International Conference of Chemical, Energy and Environmental Engineering" ICCEEE 2017, 19-21 March 2017, Alexandria, Egypt.
- **Y. A. F. El-Samadony**, (2017), Theoretical Performance Evaluation of Hybrid Passive and Active Solar Stills, 1st International Conference of Chemical, Energy and Environmental Engineering" ICCEEE 2017, 19-21 March 2017, Alexandria, Egypt
- **Y. A. F. El-Samadony**, and B. M. Gibbs (2014)” Energy Efficient Liquid Desiccant Hybrid Air Conditioning System”, 3rd International Conference on System Engineering and Modelling (ICSEM 2014), May 21-22, 2014, Paris, France.
- A. Khalil, S. A. El-Agouz, **Y. A. F. El-Samadony**, M. A. Sharaf (2013) ” Simplified model for adsorption refrigeration unit behaviour”, Eleventh International Conference of Fluid Dynamics (ICFD11), December 19-21, 2013, Helnan Palestine Hotel, Alexandria, Egypt



- A. Khalil, E.A. Elshenawy, **Y. A. F. El-Samadony**, and A.M. Salem (2013) ” Numerical study of enhancing heat transfer using twisted tape inserts”, Eleventh International Conference of Fluid Dynamics (ICFD11), December 19-21, 2013, Helnan Palestine Hotel, Alexandria, Egypt.