

AGBOOLA, PHILIPS OLALEYE (PHD)

Mechanical Engineering, College of Applied Engineering, King Saud University,
(Muzahimiyah Branch), Kingdom of Saudi Arabia

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QUALIFICATION OBTAINED

- B. Tech (Hons) Mechanical Engineering
- MS Mechanical Engineering
- PhD Mechanical Engineering

PROFESSIONAL BODY

1. Member, American Society of Mechanical Engineers
2. Member, International Association of Engineers
3. Member, Association of Energy Engineers
4. Member, American Society of Education Engineers
5. Member, European Desalination Society

RESEARCH AREAS:

1. Desalination
2. Renewable Energies- Solar Application, Bio-fuel (1st & 2nd Ethanol production)
3. Demand side Management
4. ABET & Engineering Education
5. Water resource & Management
6. Stress corrosion cracking (Circumferential Notch Test Approach)
7. Energy Economics

SELECTED PUBLICATIONS

JOURNALS:

1. Agboola, O. Phillips and F. Egelioglu. Empirical investigation of two designs of inclines solar water desalination system. Poland Journal of Chemical Technology, Poland Journal of Chemical Technology. Volume 14, No 1(2012) 35-40
2. O. Phillips Agboola and F. Egelioglu. Water Scarcity in North Cypress and Solar Desalination Research: A Review. Journal of Desalination and Water Treatment, Volume 43(2012), 29-42
3. O. Philips Agboola, M. Hashemipour, F. Egelioglu, U. Atikol, H. Hacisevki, "Assessing a decade old capstone senior projects through ABET accreditation program outcomes", Procedia - Social and Behavioral Science, Elsevier, No. 47, pp. 120-125, 2012.
4. Kiyam Parham, Ugur Atikol, Mortaza Yari, and O. Phillips Agboola, "Evaluation and Optimization of Single Stage Absorption Chiller Using (LiCl + H₂O) as the Working Pair," Advances in Mechanical Engineering, vol. 2013, Article ID 683157, 8 pages, (2013).

5. O. Phillips Agboola, Ugochukwu K. Elinwa, Accreditation of Engineering and Architectural Education in Nigeria: The Way forward, *Procedia - Social and Behavioral Sciences*, Elsevier, Volume 83, Pages 836-840. (2013)
6. Kiyani Parham, E. Esmaeilzadeh, Amir Siah Sarani and O. Phillips Agboola, "Numerical study of thermal radiation effect on confined turbulent free triangular jets" *Advances in Mechanical Engineering*, *Advances in Mechanical Engineering* Volume 2013 (2013), Article ID 245967, 6 pages, (2013)
7. O. Phillips Agboola, I. S. Al-Mutaz, Jamel Orfi, Fuat Egelioglu. Economic Investigation of Different Configurations of Inclined Solar Water Desalination Systems. *Advances in Mechanical Engineering* Volume 2014 (2014), Article ID 925976, 7 pages

INTERNATIONAL CONFERENCE:

8. M. Reza Azizian, Hossein Assefi, O. Phillips Agboola, A Prospective Study of PV Cells and its Effect on Global Warming, Case Study: North Cyprus. 4th IASME/ WSEAS International Conference on Energy & Environment, Ecosystem and Sustainable Development (EEESD' June 08), Portugal.
9. 10. O. Phillips Agboola, F. Egelioglu, O. Mary Agboola, The Feasibility Study of Household Units PV Cells for Carbon Emission Reduction in Developing Countries: A Case Study of N. Cyprus. ASME 2010 4th International Conference on Energy Sustainability (ES2010) May 17–22, 2010, Phoenix, Arizona, USA
10. O. Phillips Agboola, Nnamdi I. Nwulu, A Feasibility study on the application of demand side management to residential homes in Nigeria. *Proceedings of Integration of Renewable Energies into the Grid (PESS 2010)*, Magdeburg, Germany, October 14-15 2010
11. O. Phillips Agboola, O. Mary Agboola. Nigeria Bio-Ethanol: Need for Capacity Building Strategies to prevent Food Crises. World Renewable Energy Congress 2011 – Sweden 8-11 May 2011, Linköping, Sweden (Grant of 1450 Euros from Swedish International Development Cooperation Agency)
12. O. Phillips Agboola and F. Egelioglu. Water scarcity and solar desalination systems in the Eastern Mediterranean Region: A case of Northern Cyprus. *Proceedings of ASME 2011 5th International Conference on Energy Sustainability & 9th Fuel Cell Science, Engineering and Technology Conference (ESFuelCell2011)* August 7-10, 2011, Washington, DC, USA
13. Nwulu, N.I.; Agboola, O.P.; "Modeling and predicting electricity consumption using artificial neural networks," *The 11th International Conference on Environment and Electrical Engineering (EEEIC)*, Venice, Italy. IEEE Xplore, pp.1059-1063, 18-25 May 2012 doi: 10.1109/EEEIC.2012.6221536
14. K. Parham, M. Yari, U. Atikol, O. Phillips Agboola. Performance simulation and optimization of absorption chiller using [LiCl+H₂O]. The 6th International Conference on Information (Information' 2013), May 8-11, 2013, Tokyo, Japan
15. Khamooshi, M., Parham, K., Atikol, U., Agboola, P., Overview of Ionic liquids used as working fluids as absorption cycles. The Sixth International Exergy and Environment Symposium (IEEES-6) July 1-4, 2013, Rize, Turkey.