

Prof. Dr. Nuri Mohamed Eshoul



Date of birth: 05/01/1964

Azizia Libya

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EDUCATION

- **PhD** University of Newcastle upon Tyne, 2017 Newcastle upon Tyne, UK
- **MSc** of Science - Salford University, UK, 1999.
- **BSc** of Marine Engineering - Tripoli University, Tripoli, Libya, 1990.

SUMMARY OF EXPERIENCE

- 10 years of experience as a Mechanical Engineer in oil sector.
- 20 years teaching Mechanical and chemical Engineering in Libyan Universities and Institutes.
- 2013 – 31/12/2017 Scholarship for four years as a PhD research student.
- 1/2/2018 staff member at The Higher Institute of Industrial technology until 31/08/2021.
- 01/09/2021 staff member at Marine and offshore Engineering, Tripoli University until now.

WORK EXPERIENCE

Professor

Tripoli University, Marine Engineering Department from 01/09/2021 until now.

The High Institute of Industrial Technology - Engila – Libya from 25/7/2000 – until 31/08/2021.

- Teaching different engineering courses including:

Ship construction

Thermodynamics

Fluid Mechanics

Engineering Mechanics

Power Plants

Rotating Equipment

Main marine engines

Mechanical Measurements

Ship stability

Heat Transfer

Strength of Materials

Mechanical Vibration

Combustion Fuels and Oils

Renewable Energy

Technical Writing

Workshop Technology

- Revised the syllabus to meet accreditation standards.

- Supervise and evaluate final year undergraduate student's projects.
- Organisation of human resources (students and support staff), technical and administration resources.
- Advise students on appropriate research topics and edited and evaluated their work.
- Lab. Demonstrator for different labs.
- Developed homework assignments, tutored students, provided laboratory demonstrations and supervised and evaluated student's lab results.
- Review in number of journals and conferences.

Positions held at the higher institute of industrial technology and at the higher institutes department

- Director Assistant
- Head of technical and scientific office
- Head of Scientific affair
- Head of Mechanical Engineering department
- Staff member of promotion committee
- Head of a number of exam committees
- Head of scientific office at higher institutes department

Engineer specialist

Sirte Oil Company for Production and Manufacturing of Oil & Gas - Brega – Libya
09/6/1992 -24/07/2000.

- Troubleshooting and failure analysis of plant machinery.
- Preventive and predictive maintenance / condition monitoring.
- Vibration analysis and dynamic balancing of equipments.
- Monitoring of area shutdown activities.
- Coordinating activities with support group such as workshop and overseas vendors.
- Filed facilities at Refinery, LNG, Plant Power Station and Petrochemical.
- Excellent exposure to large rotating machine such as gas turbines, steam turbines, centrifugal and reciprocating compressors, multi-stage pumps and gear boxes.
- Rotor repair.
- Supervising Turnaround.

Mechanical Engineer

National Road Equipment Company - Tripoli - Libya
from 25/12/1990 until 01/06/1992

- Involved with maintenance of compressors, vehicles, heavy equipment such as loaders and dumpers.

TRAINING and workshops

- Effective tools and strategies for time management, tasks management and notes management 03-12-2016 Newcastle upon Tyne UK.
- Advanced Document Management - using Word and EndNote 2014, Newcastle University UK.

- Creating Academic Posters 2015, Newcastle University UK.
- Presentation Skills Using PowerPoint 2015, Newcastle University UK.
- Convincing CVs and Covering Letters 2015, Newcastle University UK.
- Time Management 2014, Newcastle University.
- Introduction to learning and teaching in high education 2015, Newcastle University UK.
- Centrifugal Pumps operation & Maintenance International - Institute of Energy – Tripoli, Libya 2004.
- Technical writing – Brega, Libya 2000.
- Projects Evaluation & Feasibility Study - Team International –Brega, Libya 1998.
- Alignment Technology - Northern Alberta Institute of Technology – Brega, Libya 1998.
- Steam Turbine & Governors - Dresser Rand – Brega, Libya 1995.
- Centrifugal Compressors Engineering - Dresser Rand – Brega, Libya 1995.
- Gas Turbine Maintenance - Abramco – Tripoli, Libya 1995.
- Power plant ABB gas Turbine Operation & Maintenance - ABB Power generation Ltd. - Brega - Libya 1994.
- Tribology of Machines - Neale Consulting Engineers – Brega, Libya 1994.
- Centrifugal Pumps, Operation & Maintenance - Northern Alberta Institute of Technology – Brega, Libya 1998.
- Diesel Engine - International Institute of Energy – Benghazi, Libya 1993.
- Vibration Analysis & Diagnosis - MEAGE - Brega 1992.

SKILLS

- **Computer:** Highly proficient at Excel, Word and PowerPoint. Extensive experience of IRD Machinery Analysis Software and IPSEpro software.
- **Presentation:** Developed ability to produce reports and presentations to a professional standard.
- **Analysis & Evaluation:** Proficient in assessing data and formulating solutions.
- **Organisational:** Effective at time management and prioritising tasks to achieve deadlines.
- **Interpersonal/Communication:** Strong team working, leadership and communication skills.
- **Language:** Arabic (native), English (fluent).

RESEARCH INTEREST

Energy conversion technology and renewable energy.

PUBLICATIONS

The resent publication

Journal papers

- 1- Nuri Eshoul, Abdulrahman Almutairi, Rasaan Lamidi, Hamad Alhajeri and Abdulrahman Alenezi “Energetic, Exergetic and Economic Analysis of MED-TVC Water Desalination Plant with and without Preheating” *Water* **2018**, *10*, 305; doi:10.3390/w10030305.
- 2- Nuri Eshoul, Brian Agnew, Alexander Anderson and Mohanad Atab “Exergetic and economic analysis of two-pass RO desalination proposed plant for Libyan domestic water and irrigation” *Energy*, Vol. No. 122, 2017, 319-328.
- 3- Nuri Eshoul, Brian Agnew, Mohammed Al-Weshahi and Mohaned Sarari “Exergy analysis of two pass Reverse Osmosis (RO) desalination with and without Energy Recovery Turbine (ERT) and pressure exchanger(PX) ”*Energies*” 2015,8, 6910-6925.
- 4- Nuri Eshoul, Brian Agnew, Mohammed A. Al-Weshahi and Fathi Latrash “Exergy analysis of two-passes Reverse Osmosis (RO) desalination with and without Energy Recovery Turbine (ERT) ”*International Journal of Exergy*”,
- 5- Rasaan.O.Lamidia, Yaodong Wang, Pankaj. B. Pathareab, Marcelo Calispa Aguilera, Nuri Mohamed Eshoul, Abdullah Malika and A.P. Roskillya “Sustainable agriculture: biomass powered combined cooling and power system for post-harvest loss reduction of yam tubers in Sub-Saharan African region” *Energies*” 2019, 12, 872.
- 6- Ramadan O. Saied and Nuri Mohamed Eshoul “Experimental Study on the Performance of Built-in Storage Solar Water Heater in Benghazi Climate” 2014.

Conference papers

- 1- Samir Elghriani and Nuri Eshoul “A new Vision For The future Of Sustainable Biodiesel for the EU” 11th International Renewable Energy Congress IRCE, Sousse – Tunisia, October 26-28, 2021. IEEE.
- 2- Hamza khelifa and Nuri Eshoul “Study The Energy Absorption of Empty and Filled Square Tubes Subjected to Axial Static Loads” 11th International Renewable Energy Congress IRCE, Sousse – Tunisia, October 26-28, 2021. IEEE.
- 3- Nuri Mohamed Eshoul, Rasaan. O. Lamidi, Fauzi Abualgasem Mohamed and Mohamed Alkateb “Performance enhancement of the performance of an existing combined cycle power plant using absorption chiller” IRCE, Tunisia, October 29-31, 2020. IEEE.
- 4- Ayman Alsadai, Nuri Eshoul and Mohamed Alkateb, “Nano Diamond: A Zero-Dimensional Nano-material” 11th International Renewable Energy Congress IRCE, Tunisia, October 29-31, 2020. IEEE.
- 5- Mohamed Alkateb, Ayman Alsadai and Nuri Eshoul “Energy Absorption of wool/epoxy Composite Tubes” IRCE, Tunisia, October 29-31, 2020. IEEE.
- 6- Nuri Eshoul “Exergetic and economic analysis for single pass RO with PX powered by ORC using brackish water”, 10th International Renewable Energy Congress IRCE, Sousse – Tunisia, March 26-28, 2019. IEEE.

- 7- Nuri Eshoul and Abdulrahman Almutairi “Exergetic and economic analysis for two different desalination technologies using brackish water” the third Arabic water conference, Kuwait 2018.
- 8- Nuri Eshoul, Brian Agnew and Ratha Mathkor. Thermodynamic analysis of combined cycle power plant standalone and coupled with multi effect desalination with thermal vapor compression, 6th International Renewable Energy Congress IRCE, Sousse – Tunisia, March 24-26, 2015. IEEE.
- 9- Nuri Eshoul, Brian Agnew, Mohammed A. Al-Weshahi, Ratha Mathkor. Validation and thermal analysis of combined cycle power plant standalone and with multi effect thermal vapour compression. International Conference on Environment Science and Engineering, (ICESE2015), Istanbul, Turkey, April 24-25.
- 10-Nuri Eshoul, Brian Agnew, Abdalbaset Mnider. Parametric study of multi-effect desalination with thermal vapour compression plant. 7th International Renewable Energy Congress IRCE, Hammamet–Tunisia March 22-24, 2016. IEEE.
- 11-Nuri Eshoul, Brian Agnew and Alexander Anderson. A comparison between single effect desalination and single reverse osmosis desalination plants using brackish water Waddan city – Libya, Heat Powered Cycles Conference Nottingham University, UK, 27-29 June 2016.
- 12-Nuri Mohamed Eshoul, Ali Salah Aldeeb, and Mohamed Jalal “Modelling of gas separation through membrane using silica layer” first International conference and exhibition of chemical and process engineering 5-7 may 2009 Tripoli University, Tripoli, Libya.
- 13-I.R. Mathkor, B. Agnew, M. Al-Weshahi and N. Eshoul. (2015) “Exergy Modelling of an Organic Rankine Cycle Energized by Heat from Parabolic Trough Collector with Thermal Storage” 14th International conference on clean and green energy (ICCGE), Amsterdam-Netherlands 14-15 Feb. 2015.
- 14-Fathi A. Latrash , Brian Agnew, Mohammed Al-Weshahi, Nuri M. Eshoul(2015) “optimal selection of using fluids (HFC, HCFC, HFC) for an Organic Rankine Cycle utilising a low temperature geothermal energy source” international conference on environment science and engineering” International conference on environment science and engineering” (ICESE2015), Istanbul, Turkey, April 24-25, 2 24-25, 2015.

REFERENCES

1- Professor Brian Agnew	2- Dr. Sandy Anderson
University of Newcastle upon Tyne	University of Newcastle upon Tyne
Brian.agnew@ncl.ac.uk	Anderson.goldpink@gmail.com
<u>Notes:</u> My PhD Examiner: Professor Pliidisis; Canfield University.	