

Curriculum Vitae

MOHAMMED ELHADI AHMED YOUNIS



ADDRESS:

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PERSONAL DETAILS:

Date of birth: 1978
Nationality: Sudanese
Marital status: Married

EDUCATION:

- M.Sc. in Energy Engineering from University of Khartoum, Sudan, January 2009, graduated with a distinction
- B.Sc. in Mechanical Engineering from University of Khartoum, Sudan, February 1997 to July 2002, graduated with a 1st degree.

AWARDS AND PRICES:

Achieved six prizes during my study at the University of Khartoum as follows:

- The University prize for the best academic performance, in Dept. of Mechanical Engineering, for the final year.
- National Electrical Corporation prize for the best academic performance, in Dept. of Mechanical Engineering, for fifth year.
- Shell company prize for the best academic performance, in Dept. of Mechanical Engineering.
- Ministry of Irrigation prize for the best academic performance, in applied hydraulics & Irrigation design, in Dept. of Mechanical Engineering.
- Late Sarkis Izmirlian prize for the best academic performance, in heat engines, in Dept. of Mechanical Engineering.
- Late Mirghani Hamza prize for the best academic performance, in Dept. of Mechanical Engineering, for fourth year.

ATTENDED COURSES:

2014 Flow Assurance for pipeline systems & Pipeline optimization, Edinburgh, UK, By Hydrafact Limited

- 2011** Advance flow assurance with OLGA, Kuala-lumpur, Malaysia, By SPT Group
- 2010** API 653 for Tank Inspection, Repair, Alteration, and Reconstruction, Petrodar Headquarter, Khartoum, Sudan, By VILOSI
- 2010** Planning & Implementing, Koral Hotel, Khartoum, Sudan, By Permata KL
- 2010** OLGA users meeting, Abu Dhabi, UAE, By SPT Group
- 2009** Flow assurance with OLGA, Dubai, UAE, By SPT Group
- 2009** Multiphase flow modeling of crude oil pipeline networks, Petrodar Headquarter, Khartoum, Sudan, By HydraFact Ltd.
- 2007** Installation and operation of a new restart test loop, China University of Petroleum, China, By China University of Petroleum

EXPERIENCE IN EDUCATION:

October 2015-Present Head of Fluid Mechanics Section

July 2009-Present Lecturer

- Teaching the following subjects:
Thermodynamics, data analysis and presentation, hydraulics, and Oil storage and transport (for petroleum Engineering student)
- Final year projects coordinator (academic year 2012-2013, 2013-2014, & 2014-2015 and 2015-2016)
- Supervisor of final year projects

August 2002-July 2009 *Teaching Assistant*

- Teaching assistant in A/C Design system - fifth year.
- Teaching assistant in Mechanical Design III - fifth year.
- Teaching assistant in Mechanical Design II - fourth year.
- Preparing the evaluation reports and result managing on PCs.
- Assisting the department professors in reviewing and grading exams, homework, quizzes and research papers.
- Laboratory assistant for various discipline including hydraulic and heat engine lab.
- Exam coordinator: revising and printing exams in the department.

PUBLICATIONS:

- Mohamed Elhadi Ahmed Younis, and Mohammed Hashim Siddig, the effect of thermal and chemical treatments on the restart of the GNPOC crude-oil pipeline (waxy crude), Sudan Engineering Society Journal, September 2010, Volume 56 No.55
- Mohammed Hashim Siddig, Mohamed Elhadi, and Mazin Ebakrey, Study of the restartability and hydraulics of GNPOC crude Oil Pipeline, Conference of Postgraduate Studies & Scientific Research, 2010.

PROJECTS AND STUDIES:

- Carry out flow assurance study of Block 4 (three field pipelines 108km, 100km, and 49.6km) for Greater Nile Operating Company (October 2014)
- Study of Greater Nile Operating Company pipeline Safe Operation (June 2012)
- Study of reverse pumping through Greater Nile Operating Company pipeline (1504 km pipeline) to feed Khartoum Refinery (KRC) due to the Higlig crisis using Pipesim software (April 2012).
- Study of capability of pumping back from PDOC marine terminal to Khartoum refinery (March 2012)
- Conduct the heat transfer study to maintain 1.9 million barrels of Petrodar Operating Company (PDO) crude at marine terminal storage tanks safely after pipeline shutdown and eliminate the risk of gelling (January 2012)
- Member of project management team in conceptual design of evacuation Fula heavy crude through PDOC pipeline (August 2011)
- Study of pressure surging in PDOC pipeline using OLGA software (May 2011)
- Team member in provision of Feasibility Study for White Nile Petroleum Operating Company (WNPOC) Crude Batching via GNPOC Pipeline (March 2010)
- Team leader (client side) for Restart-ability study for PDOC pipeline (1370 km pipeline) after shutdown (2009- January 2010)
- Team member in a restart plan for GREATOR NILE PETROLEUM OPERATING Co. (GNPOC) pipeline (2006-2008)

RESEARCH AREA INTERESTS:

- Flow Assurance Study
- Hydraulics of Non-Newtonian flows
- Hydraulics of Pigging Operation in petroleum Industry
- Slugging and Slug Analysis in Multiphase Pipelines
- Multiphase flow modeling in pipes