



Seyed Mohammadreza Miraboutalebi

#### EDUCATION:

Master of Process Engineering (Honor Graduate with average=18.48 out of 20) 2011-2013

Bachelor of Chemical Engineering, Process Engineering (Honor Graduate with average=17.63 out of 20) 2006-2010

#### WORK EXPERIENCES:

- NAMVARAN Consulting Engineers May, 2016 - Present
- Process Engineer at SEPDCO (Gostaresh Faraynd Sharif),

#### Projects:

- 1- Flare Gas Recovery in Phase 2, 3, 4, 5 and Jam Petrochemical Complex, Assaluye, South Pars Gas Company with POGC.
- 2- Unit 147 & 148 modification to decrease Flaring Gas, Phases 4&5.
- 3- LPG Pumps Design for Phases 6, 7 & 8.
- 4- Back up Stabilization Modification to Decrease Flaring Gas, Phases 4&5.
- 5- Workshop Supervisor of a 27-meter Stabilizer Construction.

6- Design and Construction of Two Air-coolers for Wash and Tempered Oil. Jan. 2015 - May, 2016

- Software Teacher at Iran Petroleum Engineering Co. (ipec.info) Jan. 2015 - Present

- Process Engineer, Project: Petrochemical Complex Utility and Offsite Jan. 2014 - Dec. 2014

- Educational Director and Software Teacher at Pishgaman Farayand Rastin - Jul. 2013 – Dec. 2014

- Shaya Parto Pars (Energy saving company) Feb. 2011-Dec. 2011

- Tehran Oil refinery as a Trainee for 240 hours - Jun. 2010

#### ABILITIES:

- Good Knowledge of Programming Using MATLAB, Excel, C++ and Visual Basic for Application

- Good Knowledge of Microsoft OFFICE

- Good Knowledge of Maple

- Good Knowledge of Artificial Neural Network

- Good Knowledge of Writing Scientific Papers and Endnote X7

- Fluent in English

- Good Knowledge of HYSYS, ASPEN Flare Net, HTFS+ and HYSYS Oil Manager
- Good Knowledge of Pipe Net and PRO II
- Good Knowledge of ASPEN ICARUS and Individual Method related to Cost

#### Estimation

- Good Knowledge of Equipment Sizing such as PSVs, Drums, Atmospheric Tanks, Pumps, etc.
- Good Knowledge of API 521 relating to pressure relieving
- Good Knowledge of API 520 Part 1,11, API 537, API 661, API 610
- Good Knowledge of Flare Gas Recover System, its Unit Design and Documents
- Good knowledge of Flare Sizing Based on API 521-2014
- Good Knowledge of Natural Gas Letdown Station Unit Designing and its Documents
- Good Knowledge of Fuel Storage Unit Designing and its Documents
- Good Knowledge of Preparing of all Engineering Documents related to Process

#### Department

- Good Knowledge of AutoCAD 2D
- Good Knowledge of Gas Refineries, Specially Phases 2,3,4,5,6,7,8,17 and 18 in Assaluye,

#### South Pars

- Good Knowledge of Fire Fighting System Design
- Good Knowledge of Water Intake and Outfall System Design
- Site Experience related to Condensate Stabilizer Construction and also South Pars Gas

### Refineries

- Familiar with ASPEN PLUS
- Familiar with French
- Familiar with Mini Refineries

### HONORS/ACTIVITIES:

- Honor Graduate at M.Sc. 2013
- Honor Graduate at B.Sc. 2010
- Encouraged by Iranian Chemical Engineering Association Feb. 2012
- Being a member of Young Researchers and Elite Club 2007-2010
- Being a member of Young Researchers and Elite Club as a Master Researcher  
Sep. 2012 - Present
- Being a member of SPE March 2013- Dec 2013
- Teaching Assistant of Advanced Numerical Mathematics,

Dr. F. Nosrati nia (Prof. of IAU, South Tehran Branch) April 2013 – Dec. 2013

- Teaching Assistant of Reactor Design,

Dr. F. Khorasheh (Prof. of Sharif University of Technology) Sep. 2012 – Dec. 2013

- Teaching Assistant of Advanced Reactor Design,

Dr. M. Kazemeini (Prof. of Sharif University of Technology) Sep. 2013 – Feb. 2015

### ISI JOURNAL PAPERS:

1-Fatty Acid Methyl Ester (FAME) Composition Used for Estimation of Biodiesel Cetane Number Employing Random Forest and Artificial Neural Networks: A New Approach, Seyed MohammadReza Miraboutalebi, Pezhman Kazemi, Peyman Bahrami, Fuel, Elsevier, 3rd November 2015, doi:10.1016/j.fuel.2015.10.118 (Published).

2-Simulation of Propane Dehydrogenation to Propylene through a Radial Flow Reactor over the Pt-Sn/Al<sub>2</sub>O<sub>3</sub> Catalyst, Seyed Mohammadreza Miraboutalebi, Leila Vafajoo, Mohammad Kazemeini, Moslem Fattahi, Chemical Engineering & Technology Journal, 1st December, 2015, doi: 10.1002/ceat.201500082, (published).

### INTERNATIONAL CONFERENCE PAPERS:

1-Drinking Water Treatment Utilizing Carbon Filtration and Ozone Disinfection: An Experimental Study, L. Vafajoo, V. Marzbandkaseb, S.M. Miraboutalebi, The 9th International Chemical Engineering Congress & Exhibition, 26-28 December, 2015, Shiraz, Iran, (Accepted).

2-Analysis and Modeling of Nano-Communication Through Molecular Diffusion, Chatrine Babakhanloo, Seyed Mohammadreza Miraboutalebi, Mehdi Ardjmand, Abbas Salimi, 2nd International Conference on Nanotechnology (ICN 2014), 10-12 April 2014, Istanbul University, Istanbul, Turkey, (Accepted & Published)

3-Developing a Mathematical Model of Propane Dehydrogenation in an RFB Reactor, L. Vafajoo and S.M. Miraboutalebi, The 8th International Chemical Engineering Congress & Exhibition, 24-27 February, 2014, Kish Island, Iran, (Accepted & Published).

4-A Theoretical Investigation of the Catalyst Deactivation for the Propane Dehydrogenation Utilizing an Artificial Neural Network Model, L. Vafajoo and S.M. Miraboutalebi, The 8th International Chemical Engineering Congress & Exhibition, 24-27 February, 2014, Kish Island, Iran, (Accepted & Published).

#### NON-ISI JOURNAL PAPERS:

1-An Introduction to Nanomedicine and Nanodrugs, S.M. Miraboutalebi and L. Vafajoo, Iranian Chemical Engineering Journal, Vol.13, No.72, 2014, (Accepted & Published).

#### IN PROGRESS PAPERS:

1- Methylene Blue Adsorption Investigation Onto Maize Silk Powder: Kinetic, Equilibrium, Thermodynamic Studies and Error Analysis, Seyed Mohammadreza Miraboutalebi, Mohammad Peydayesh, Leila Vafajoo. (ISI Proceeding)

2-Alkylphenolic Compounds Removal From Industrial Waste water Utilizing UV Reactors: An Experimental Study, Behzad Sanaei, Seyed Mohammadreza Miraboutalebi, Leila Vafajoo. (ISI Proceeding)

3-Acid Gas Removal from Natural Gas by Amine Mixtures: An Artificial Neural Network Modeling with Genetic Algorithm Optimization, Alireza Shams Esfandabadi, Seyed Mohammadreza Miraboutalebi, Leila Vafajoo. (ISI Proceeding)

4-Optimum Operating Conditions Determination of CCR Unit to Maximize Octane Number Assisted ANFIS, Ali Shaeri, Seyed Mohammadreza Miraboutalebi, Mehdi Ardjmand. (ISI Proceeding)

#### RESEARCH INTERESTS:

- Oil and Gas Process Simulation and Modeling
- Chemical Reactor Modeling and Simulation
- Waste Water Treatment
- Catalyst and Surface Science
- Artificial Intelligence

**LEISURE INTERESTS:** Short Story, Wrestling, Tae Kwando

"References available on request"

*ipecc.info*