



◆ ABOUT

H. Asaadian is a Master Degree graduated student from Petroleum University of Technology in 2018. His major is Production from Hydrocarbon Reservoirs and his last works were about formation damage and two-phase flow through wellbore and pipelines. Also he was Teacher Assistant for petroleum engineering courses such as Production Engineering 1 & 2, Well Logging, IOR, Well Completion and Stimulation. He was developer and responsible for operation and maintenance of PVT cell and two-phase flow simulator which have placed in PUT Research Center and Production Lab. After working as head of technical department in IOID on Yadavaran, South Azadegan and West Paydar Fields Production and Operation Project, he continued his career as researcher of separation team in SUBPRO group of NTNU in 2020

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Persian

/

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EOR

Well Stimulation
Fluid Dynamic

REFERENCES

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Dr. Bahram Soltani Soulgani

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(My Supervisor)

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Dr. Shahin Kord

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Dr. Sina Rezaei Gomari

Teesside University
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(My Advisor)

◆ EDUCATION

- ◆ 2007-2011 Diploma of Mathematics from Shahid Dastgheib High School (Distinguished Student School, SAMPAD), Shiraz, Iran.
- ◆ 2011-2015 Bachelor of Science in Petroleum Production Engineering, Petroleum University of Technology (PUT), Ahwaz, Iran. **GPA (15.35/20)**
Thesis: Simulation of Acidizing one of the Iranian South West Oil Wells
- ◆ 2015-2018 Master of Science in Petroleum Production Engineering, Petroleum University of Technology (PUT), Ahwaz, Iran. **GPA (16.49/20)**
Thesis: Experimental Investigation of Gas/Liquid Cylindrical Cyclone Separator
- ◆ 2020-Now PhD Candidate of Petroleum Production Engineering, Norwegian University of Science and Technology (NTNU), Trondheim, Norway.
Thesis: Experimental and Numerical Study of Subsea Bulk Oil-Water Separation

◆ EXPERIENCE

- ◆ Jun 2013
Jul 2013 **National Iranian Oil Co. (NIOC)** Internship as Production Engineer / Phases Separation, Transporting
- ◆ Jun 2014
Jul 2014 **Overseas Technical Services OTS** Internship as Production Engineer / Mud logging, H₂S Protection, Wireline Logging, Welltesting, Coiled Tubing and Acidizing
- ◆ Oct 2015
May 2018 **Research Center of Petr. Uni. of Tech.** Working as Research Center Assistant / PVT analysis, Core Analysis, Acidizing tests.
- ◆ Sep 2018
Mar 2020 **Gachsaran Field Development Office** Working as Ptoject Assistant / Development Plan of Gachsaran Field: Proposal Writing, EOR Screening, Developing Road map.
- ◆ Mar 2020
Dec 2020 **Iran Ofogh Industrial Development Co.** Working as head of Technical Department / Maintenance and Operation of Yadavaran, West Paydar and South Azadegan Fields.
- ◆ Mar 2020
Present **SUBPRO Group** Working as researcher of separation team

◆ AWARDS & ACHIVEMENTS

- ◆ Leader of SmartOil Startup Team Established in 2018 with the aim of spreading the application of artificial intelligence in petroleum engineering
- ◆ Winner of 3rd Oilympic Challenge Winner of Petro Pars Zagros Co. (PPZ) Challenge (Screening of EOR Methods for Bangestan Reservoirs)
- ◆ Finalist of EAGE Laurie Dake Field Challenge 2019 Accepted as 10-best-team among of 24 other teams from different universities. (Sponsor by BP)
- ◆ Winner of Young Inventor Contest Winner of Young Inventor Contest 3rd place in Young Inventor Contest.
- ◆ Student Travel Grant Award 580 € / 78th EAGE annual Conference and Exhibition, Austria, 2016.
400 € / 80th EAGE annual Conference and Exhibition, Denmark, 2018.
1000 € / 81st EAGE annual Conference and Exhibition, Great Britain, 2019.
- ◆ Winner of EAGE Geo-quiz 2018 1st place of geophysics exam among 30 other teams from different universities.
- ◆ Accepted in Total Trial Interview Qualify in Total Trial Interview in EAGE Paris Conference (2017).
Qualify in Total Trial Interview in EAGE Copenhagen Conference (2018).
- ◆ Accepted for Military Service in National Elite Foundation (NEF) Doing a project instead of military service (Accepted on 22 April).
- ◆ Partial scholarship from petroleum ministry for students of Petroleum University of Technology
- ◆ Reviewer of Journal of Natural Gas and Science (2019)
- ◆ Reviewer of 82nd EAGE annual Conference and Exhibition, Amsterdam, Netherlands. (2020)

LECTURING & COURSE EXPERIENCES

International Conferences

78th EAGE Conference and Exhibition, Vienna, Austria, May 2017.
 79th EAGE Conference and Exhibition, France, Paris, Jun 2018.
 The Abu Dhabi International Petroleum Exhibition & Conference (ADIPEC), Abu-Dhabi, UAE, Nov 2018.
 80th EAGE Conference and Exhibition, Denmark, Copenhagen, Jun 2019.
 81st EAGE Conference and Exhibition, GB, London, Jun 2019.
 The Abu Dhabi International Petroleum Exhibition & Conference (ADIPEC) 2018.

Teacher Assistant

Well-logging, September 2015 & 2016.
 Production Engineering 1 & 2, Jan 2015.
 Well Stimulation, Jan 2016.
 Improved Oil Recovery, Jan 2019.

SPE Study Group Regional

Advanced Technology of Separation & Metering Facilities, Dec 2016.
 New Technology of Separators and Cyclones, Apr 2017.
 Acidizing Difficulties in Carbonate Reservoirs, Mar 2018.

EAGE Lecture Tour Regional

How to Become a Petroleum Doctor, Nov 2018.
 Shale Oil Revolution, Feb 2019.

MEMBERSHIPS



Since 2011

ID No: 4110000

President (2)

Vice President



Since 2012

ID No: M2016-0150

President

Vice President

TECHNICAL PROJECTS

Simulation of Acidizing in Carbonate Reservoir (2014-2016): Determining a proper path to executing the matrix acidizing treatment by modeling the treatment with engineering software (Stim CADE & Stim PT) in horizontal and vertical wells.

Experimental Study over Slug Characteristics in Risers (2016-2017): This project was consisted of three phases: 1.Building an experimental setup 2.Diseigning and optimum experiment 3.Finding slug characteristics.

Asphaltene Sludge during Acidizing (2017-2017): Fining an environment-friendly bio-surfactant additive to remove sludge and improve rock wettability.

PVT Analysis of Ahwaz Oil Field Fluid (2018): Applying flash and separator test for Ahwaz field fluid by SANCHEZ PVT CELL.

Core Analysis of Haftkel Oil Field Rock (2018): Plugging and taking thin-section and applying RCAL & SCAL test for over 10 cores.

Gachsaran Oil Field Development Plan (2018-2019): A full scale development study on one of the most important fracture reservoir of Iran including: Data mining, EOR screening, advanced experimental study, Sector simulation and Scale upping.

Schiehallion Field Development Plan (2018-2019): The FIELD Challenge – a Fully Integrated Evaluation and Development" task, now also known as the "Laurie Dake" Challenge was inaugurated in 2011

EOR/IOR Screening Software (2018-2019): To develop a screening software by using smart methods like genetic algorithm and fuzzy logic to find most similar reservoir and most proper method. [#SmartOil_Startup](#)

IFT modeling between crude oil and brine (2019-till now): To predict interfacial tension between crude oil and brine by using two different approaches, artificial intelligence and thermodynamic modeling. [#SmartOil_Startup](#)

TECHNICAL PAPERS

New insight to Acid-induced Sludge Formation and its Prevention by a Bio-based Nonionic Surfactant, H. Asaadian¹, B. S. Soulgani, M. Zare, S. Zabihi, SPE Production & Operations, 2020, [\(Under Review\)](#) [#Acidizing](#) [#Stimulation](#)

Experimental Investigation over Effect of Geometrical Changes on Gas/Liquid Cylindrical Cyclone (GLCC) Separator, H. Asaadian, B.S. Soulgani, S. Rezaei Gomari, The Abu Dhabi International Petroleum Exhibition & Conference (ADIPEC), Abu-Dhabi, UAE, 2018. [#Multi-phase_Flow](#)

Investigation of the Simultaneous Chemicals Influences to Promote Oil-in-Water Emulsions Stability During Enhanced Oil Recovery Applications, P. Ahmadi, H Asaadian, Sh. Kord, A. Khadivi, Journal of Molecular Liquids, 2018. [#EOR](#) [#Low_Salinity](#)

A New Approach for Determination of Carbonate Rock Electrostatic Double Layer Variation Towards Wettability Alteration, P. Ahmadi, H Asaadian, A. Khadivi, Sh. Kord. Journal of Molecular Liquids, 2018. [#EOR](#) [#Emulsion](#)

Characterization of Gas-Liquid Flowing Process in Pipeline-Riser System at Severe Slug Condition, H. Asaadian, S. Rezaei Gomari;; B. S. Solgani, Flow, Journal of Petroleum Science and Engineering, 2020. [\(Under Review\)](#) [#Multi-phase_Flow](#)

Optimization of Carbonate Acidizing in one of the Iranian Oil Field, H. Asaadian, B.S. Soulgani,, The 78th EAGE Conference & Exhibition, Vienna, Austria, May & June 2016. [#Acidizing](#) [#Stimulation](#)

Experimental Study on Acidizing Fluids Viscosity Variation during Carbonated Well Stimulation, H. Asaadian, B. S. Soulgani, A. Sahnalizadeh. The 79th EAGE Conference & Exhibition, Paris, France, June 2017. [#Acidizing](#) [#Stimulation](#)

Water Cut Metering by Flow Electrical Resistivity Measurement Method, H. Asaadian, B.S. Soulgani, R. Najafi, The 80th EAGE Conference & Exhibition, Copenhagen, Denmark, June 2018. [#Multi-phase_Flow](#)

An Experimental Study on Electrical Effect on Asphaltene Deposition, H. Asaadian, B. S. Soulgani, A. Karimi, Petroleum Science and Technology, 2017. [#EOR](#) [#Asphaltene](#)

Bitumen-water Interfacial Tension Modeling by Using Subtractive Clustering Method, H. Asaadian, H. Zanoori, B. S. Soulgani, Petroleum Science and Technology, 2018. [#EOR](#) [#Bitumen](#)

On the Effect of Salinity, Asphaltenes and Resins on Interfacial Tension: Application to Low Salinity Water Injection, R. Moghadasi, S. Kord, J. Moghadasi, H. Asaadian, 80th EAGE Conference and Exhibition, Copenhagen, Denmark, 11 June, 2018. . [#EOR](#) [#Asphaltene](#)

COMPUTER SKILLS

