

Curriculum Vitae

Dr. Alireza Bashari,

President, Iranian Society
of Petroleum Geology.

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PROFILES

Formerly the Head of Exploration Department and also Manager of (R&D) Iranian Offshore Oil Co., & Faculty member of Institute of petroleum industry.

I am currently **President of Iranian Society of Petroleum Geology**. I am also adjunct professor of different universities around the world (including Tehran, Calgary, Curtin universities and IFP). I obtained a PhD degree in Petroleum Reservoir Characterizations from University of New South Wales, Sydney, have more than 38 years industry experience. I have started my career since 1974, as a well site and subsurface geologist with Sofiran (Elf Iran).

During my career I have been in charge of several exploration /development activities in the Persian Gulf for Elf, Iranian offshore Oil Co, and Bridge Oil Co. Sydney, Australia (Bowen Basin, Queensland).

I have gained significant operational and technical experience by holding different capacities within Iranian offshore Oil Co (IOOC). Much of my career has been spent in leadership /management roles at IOOC in Exploration Department. Other roles have included teaching and supervision of MSc & PhD students.

I have published a number of peer-reviewed journal articles and also conference papers on reservoir characterisation (carbonate & siliciclastic reservoirs) of the Iranian oil and Gas Fields as well as Queensland Bowen Basin, Australia. My research has been focused on integrated solutions for reservoir characterization, formation evaluation / petrophysics.

I has been member of World Petroleum Council (National Committee Member) since 2003, Co- Editor, Iranian Journal of Petroleum Geology president of local chapter EAGE and also active member of AAPG.

QUALIFICATIONS:

- 1996 University of New South Wales, Sydney, (UNSW), Australia, PhD, Reservoir Characterisations.
- 1980 Shahid Beheshti University MSc. in Earth Sciences.
- 1972 Tehran University, Iran. BSc. (Hons) in Geology.

Work Experiences: over 40 years work experience, as a well-site Geologist, Sr. Geologist, Research Project Leader, Head, Exploration Geology and Research & Development Manager, as well as: Adjunct professor, & Supervisor, of MSc., PhD students, at (National & International Universities).

INDUSTRY COURSES:

Nov. 74 - Jan. 75: *Well-site Geology*
Elf Aquitaine, Tehran

Sept. 76 - Jan. 77: *Petroleum Geology & Petrophysics*
Elf Aquitaine, France (French Language)

July 94: *The Role of Formation Evaluation in Reservoir Management - an integrated approach*
School of Petroleum Engineering,
University of New South Wales (UNSW), Sydney, and several courses in Petroleum Geology, petrophysics, and 3D seismic interpretations and etc.

October 2002: Jason Geosystem: Introduction to Quantitative analysis of Impedance Data. (Paris)

January 2002: Value of the Technology: Shell Technical Services, Iran B.V.Tehran.

15th to 19th February 2003: Petroleum Economics: Roberston, Petroleum Training Centre., Kish Island, the Persian Gulf.

PROFESSIONAL HIGHLIGHTS:

2005- Present: President of Iranian Society of Petroleum Geology (ISPG) , Adjunct professor, & Supervisor, of MSc., PhD students, at (National & International Universities).

1999- 2009 : Head, Exploration Geology and Manager of Research & Development Iranian Offshore Oil Company.
Research Assistant Professor, at Research Institute of Petroleum Industry (RIPI) & Adjunct professor at School of mining Eng, Tehran. / AmirKabir University / Petroleum University of Technology, Science and Research Campus Islamic Azdad University as well as international Universities.

Accomplished Research Projects:

1999- present

I have supervised more than 38, Msc, and PhD students and supervision of over ten industrial projects at (R&D Dept.), Iranian Offshore Oil Company.

1987 - 1991:

Research Project Leader

Geology and Petrophysics Department
Iranian Offshore Oil Company

Main Responsibilities Prospective Evaluation of Khuff Gas Reservoirs (Permian- Triassic Carbonate (Kangan Dalan Formations) surrounding the supper Giant North Dome Gas Field of Qatar in the Persian Gulf .
Reservoir evaluation of common prospective and undeveloped fields in Persian Gulf (Falah, Saleh. Fields).

Jul. 82 - Sept. 87: ***Senior Research Geologist***

Main projects

- Permian-Triassic Sediments (Deep Khuff Carbonate Reservoir “Kangan & Dalan Fm.) of the Persian Gulf in relation to the accumulation of natural gas (Lithostratigraphy, Formation Evaluation Sedimentology, Petrography, and "Internal report, 62 pages, 1983").
- Stratigraphy and reservoir evaluation of the middle-upper Cretaceous.
- Study of the aquifer formation, dump flood for injection wells (based on wire line logs).

Dec. 80 - Jul. 82: ***Senior Operation Geologist***

Main Responsibilities: Supervision of well-site geologists and well logging units on offshore drilling platforms, included the Exploration & Development phases and the training of fresh geologists.
Control on coring operations & description of core samples and quick wireline logs interpretation on well site.

Dec. 79 - Dec. 80: ***Subsurface Geologist***

Main Responsibilities: Subsurface geologist of exploration and development wells in the Persian Gulf, preparation of stratigraphic correlation sections, composite logs, analytic logs, log interpretation, development of mapping of oil fields and formation evaluation and preparation of final reports.

Aug. 74 - Dec. 79: **Well-site Geologist**
Sofiran 66 Oil Company (Elf Aquitaine)

Responsibilities:

- Application of geological programme, Exploration Department.
- Supervision of mud logging units.
- Examination, description of drilled cuttings and core samples for Lithological identification and hydrocarbon shows evaluation.
- Supervision for accuracy of logging operation and quick wire line log interpretations.

RESEARCH POSITIONS:

Research Assistant professor@ RIPI & Adjunct professor at:

Sept. 1999 – Present:

School of Mining Engineering, Tehran University, Amirkabir, Petroleum university of Technology, Science and Research Campus Islamic Azad University & Overseas universities (Curtin, Calgary and IFP Universities).

Lecturing program: (Subsurface Geology & Petrophysics)

May 1996 - 1999:

Research Associate & Lecturer
Geology Department, University of Auckland, NZ.

Lecturing program:

Application of Wire line logs in Sedimentary Basin Studies,
Geology Department, University of Auckland, NZ.

Oct. 95 - Mar 96:

Research Assistant/Teaching Fellow
School of Petroleum Engineering, University of New South Wales, Sydney.

Projects: Formation Damage of different reservoirs in (Australia)

Aug. 95 - Mar 96:

Research Assistant
Applied Geology Department, University of New South Wales
Project: Fraction ignition of methane from coal mines
(Petrography & mineralogical studies)

ACADEMIC PROJECTS:

- 1992 - 1996:* *Ph.D. Thesis*
University of New South Wales, Sydney (UNSW) Australia.
- Research project: Petrography, Diagenesis and Reservoir Characterisation, Rewan Group, Bowen Basin, Queensland, Australia.
- 2000- present: Supervision of:

Over 38 M.Sc. and PhD students at different universities:
Tehran University, Curtin University, (Australia), Calgary University (Canada), (IFP), France, Petroleum University of Technology (PUT) and Science and Research Campus Islamic Azdad, Tehran.

NATIONAL & INTERNATIONAL CONFERENCES:

- Bashari, Alireza.,1988. Occurrence of Heavy Crude Oil in the Persian Gulf, in R.F. Myer and E. J. Wiggins, (Eds.): Fourth International UNITAR/ UNDP Conference On Heavy crude and Tar Sands, V.2, Geology, Chemistry: International Conference on Heavy Crude and Tar Sands, , Edmonton, Alberta, Canada, 2, 204-214, August 1988.
- Bashari, Alireza., 1988. Permian-Triassic Boundary of carbonate sediments in the Persian Gulf. Presented in the *6th Geological Symposium of Iran (Geological Survey of Iran), Tehran, March 1988.*
- Bashari, Alireza., 1990., Distribution of the Khuff Gas Reservoirs “Permian Triassic Carbonate Sediments” in the Persian Gulf. Presented in *3rd National Conference on Oil, Gas and Petrochemical, Tehran, July 1990.*
- Bashari, Alireza.,1993., Petrography, Diagenesis and Reservoir Development of sandstones, the Rewan Group, Bowen Basin, Queensland, 2nd. Geosciences New South Wales Workshop, Department of Geology, University of Wollongong, Australia November, 1993.
- Bashari, A.,1998. Reservoir characteristics of super giant gas fields, Research Seminar, Department of Geology, University of Auckland, New Zealand, weekly Staff Circular of the *University of Auckland, Issue No 34 (abstract) 20 September 1998.*

- Bashari, Alireza., 1998., Petrographic Factors Petrophysical parameters, An Approach to Reservoir Characterisation, of Rewan Group, in Southern Bowen Basin Australia (abstract has been accepted), *IPA International Conference on Gas Habitats of SE Asia and Australasia, October 1998.*
- Bashari, Alireza., 2001. Permian-Triassic Carbonate, Dalan & Kangan Formations in the hydrocarbon province of the Qatar-South Fars Arch in the Persian Gulf. (*The 11th Oil, Gas and Petrochemical Congress Oct 2001, Tehran, Iran.*)
- Bashari, Alireza, & Kordi., 2001. The Burgan Reservoir Distribution, Northern part of the Persian Gulf, (*The 11th Oil, Gas and Petrochemical Congress Oct 2001, Tehran, Iran.*)
- Bashari, A., Zainali, M., & Delavar, M.R. 2002. The use of GIS in Pay Zone Identification of the Asmari Formation in the Doroud Field in the Persian Gulf. (*The 20th Symposium on Geoscience, Feb.17-19th 2002, Tehran, Iran.*)
- Bashari, A., Minaee, 2003, Regional study of the Sarvak Formations in the Sirri District of the Persian Gulf. (*AAPG International Conference & Exhibition September, 2003, Barcelona.*)
- Bashari, A. Zaree. E. 2003, Petrography Factors and Petrophysical Parameters, an approach to the Reservoir characterization of the Dena Field in the Persian Gulf, (*AAPG International Conference & Exhibition September, 2003, Barcelona.*)
- Mostaghel, B., A. Bashari A. Khakzad & A. Amin Sobhani., 2004. Application of Stochastic Analysis & Modelling through Integrated Reservoir Characterization in Gonbadli Gas field (North Eastern of the Iran), (*66th EAGE Conference & Exhibition, 6-10 June, 2004, Paris.*)
- Bashari, Alireza., Fathei, Ebrahim. Petrography, Diagenesis and Reservoir Characterization of Upper Sarvak (Mishrif Formation), Reshadat Oilfield , in the Persian Gulf. (*32nd International Geological Conference Florence, Italy, August 20-28, 2004*)
- A. Bashari, B. Mostaghel, & A. Khakzad . Application of Stochastic Analysis & Modelling through Integrated Reservoir Characterization in Gonbadli Gas field, North Eastern of the Iran, (*AAPG International Conference & Exhibition Oct 24-27 2004, Cancun, Mexico.*)
- Zare -Maivan, H., Bashari, A., 2005, Oil Pollution in the Northern Coasts of the Persian Gulf Requires Clean- up. (*6th Congress on Science and Marin technology, Tehran.*)
- Bashari, Alireza. Permian-Triassic Carbonate, Kangan & Dalan Formations in the hydrocarbon province of the Qatar-South Fars Arch in the Persian Gulf (*67th EAGE Conference & Exhibition, 13-16 June, 2005, Madrid- Spain.*)

- Bashari, Alireza. Thermal History Reconstruction in the Soroosh and the Nowrooz Field, Persian Gulf, Based on AFTA & VR, (*AAPG International Conference & Exhibition.11-14, Sept. 2005, Paris*)
- Bashari, Alireza., Petrographic, Petrophysics and seismics integration: an approach to delineation of diagenetic trap, Reshadat oil field in the Persian Gulf, (*18th world Petroleum Congress, Johannesburg Sept. 2005*).
- Zohoorian. S. Bashari, A. Memarian H. Reservoir Characterization of Arab Formation in the Balal Oil Field, In the Persian Gulf., (*1st Iranian Petroleum Engineering Congress 23-24 May 2006 Tehran*)
- Bashari, A , Ahankar. A., Formation Evaluation of Bangestan Group (Ilam & Sarvak reservoirs), one of Central Iran Oil fields. (*1st National Iranian Applied geology Congress* ▪
- Miri. A., Bashari. A. Afshar. A., Geological Reservoir of Ilam Formation in the Sirri D Field in the Persian Gulf, Based on deterministic and Stochastic Approaches (*2nd National Iranian Petroleum Engineering Congress, 30-31 January 2008, Ahwaz, Iran" Extended Abstract*).
- Rashidi, B. Bashari. A., Rastegar, M., Accurate Real time drill Bit prediction by combining Rock Energy and drilling strength Concept. (First *1st National Iranian Drilling Technology Conference, Extended Abstract, 7-8 May 2008, , Ahwaz, Iran*).

Refereed Journal Publications :

ISI ▪ Bashari, A.,1998. Diagenesis and Reservoir Development of sandstones in the Triassic Rewan Group, Bowen Basin, Australia, *Journal of Petroleum Geology*, V. 21(4) pp445-465.

ISI ▪ Bashari, Alireza., 2000. Petrography and clay mineralogy of Volcanoclastic Sandstones in the Rewan Group, Southern, Bowen Basin, Australia, (*Journal of Petroleum Geoscience*, Vol.6, pp.151-163).

ترویجی ▪ Zainali, M., Bashari, A., & Delavar, M.R. 2002. Application of the GIS in Identification of the Asmari Reservoir Layering in the Doroud Field in the Persian Gulf. *Production & (The Journal of the Iranian Petroleum Institute", No: 59, pp 18-23, Tehran,).*

ترویجی ▪ Kurdi, M., Bashari, A., 2003 Clay mineralogy of the Kazkdumi Shale, an approach to investigation of Formation Damage of Burgan sands, in the Persian Gulf., *Exploration Journal of NIOC*, V. 5, pp. 16-17.

- ترویجی** ▪ Zaree, A, **Bashari, A.**, 2003., Petrography and petrophysics studies of Mishrif reservoir, Sirri D Field in the Persian Gulf, Exploration Journal of NIOC, V. 6, pp. 3-5.
- ISI** ▪ **Bashari, Alireza.**, 2005. Khuff formation Permian-Triassic carbonate in the Qatar-South Fars arch hydrocarbon province, of the Persian Gulf. (*EAGE, First Break*, V. 23 ,pp 43-50, Nov. 2005, Special topic).
- علمی پژوهشی** ▪ Mostaghel, B . **Bashari, A.** & A. Khakzad., 2005. Application of Stochastic Analysis & Modelling through Integrated Reservoir Characterization in Gonbadli Gas field (North Eastern of the Iran), (*Journal of Scences Islamic Azad University*. V., no 57, 327-340, Fall 2005, *Thehran, Iran*).
- ISI** ▪ **Bashari, Alireza.**, 2007. Petrography, Petrphysics and Seismic **علمی پژوهشی** integration: an approach to characterize Mishrif Reservoir on Reshadat Oil field in the Persian Gulf, (*Scientific Quarterly Journal of the Geoscience* Vol. 16 No.6, pp204-211. Geological Survey of Iran)
- ISI** ▪ **Bashari, Alireza.** 2007, Integrated 3D Seismic and Petrophysical data of the Sarvak Foramtion, Sirri District in the Persian Gulf, (EAGE, First Break, v. 25 ,pp45-53, Regional focus, Middle East).
- ISI** ▪ **Bashari, A.** 2008., Thermal History Reconstruction in the Soroosh and the Nowrooz Field, the Persian Gulf, Based on Apatite Fission Track Analysis and Vitrinite Reflection data (*Journal of Petroleum Geology*, V.31, no2 pp.153-165).
- ISI** ▪ **Bashari, A.**, 2009., Khuff Formation: A Major Middle East Gas Reservoir, *GeoExpro Journal*, (Geoscience & Technology Explained, v.6, no. 4, pp 8-32).
- ترویجی** ▪ Noori., B. **Bashari, A.**, Jahani., D & Shiroudi., SJ., 2009., Sedimentological & Petrophysical evaluation of Sarvak Formation in the Hendijan Oil Field, The Persian Gulf. ., Exploration Journal of NIOC, V. 61, pp. 47-50.
- علمی پژوهشی** ▪ A. Ahankar, **A. Bashari, B.**, Beiravand & A.A. Enayati., 2011., Sedimentological studies and petrophysical interpretation: An approach to reservoir Characterization of Sarvak Format on, in the Dalpari oil field, (Iranian Journal of Petroleum Geology Vol.1, No.1, Summer 2011)
- علمی پژوهشی** ▪ Dehkar, **A. Bashari,A** & Aslani, S., 2012., Geochemical analysis & Petrophysical studies: An approach to clay mineral investigation of E member of Qom Formation, Sarajeh Gas Field., (Iranian Journal of Petroleum Geology Vol.1, No.2, Autumn-Winter 2011-2012)
- ISI** ▪ Masoudi, Pedram; Tokhmechi, Behzad; **Bashari, Alireza;** & Ansari Jafari, Majid, 2012

"Identifying Productive Zones of Sarvak Formation by Integrating Outputs of Different Classification Methods" Journal of Geophysics & Engineering.

ISI ▪ Kamali, M. R., **Bashari, A.**, & Sobhi, G. 2012., Investigating type and distribution of organic matter in Tertiary to Cretaceous sections in the Soroosh and Nowrooz fields, the Persian Gulf., ▪ *Geopersia*. Published by College of Science, University of Tehran.

علمی پژوهشی ▪ Mahbobi pour , **A. Bashari, A** &., 2014., Study of Petrography & petrophysics of Permian Triassic carbonate sediment in Qatar – South Pars Arch, (Iranian Journal of Petroleum Geology Vol.1, No.7, Spring -Summer 2014).

علمی پژوهشی ▪ **Bashari, A.**, Al Khalij field in Qatar, and extension toward Reshadat Oil Field, in the Persian Gulf (Iranian Journal of Petroleum Geology Vol.1, No.11, Spring - Summer 2016).

علمی پژوهشی ▪ **Bashari, A.**, Impact of shale oil revolution on falling of oil and gas prices. (Iranian Journal of Petroleum Geology, No.13, pp.95-104. Spring & Summer 2017)

علمی پژوهشی ▪ **Bashari, A.**, Facies, thickness variations and reservoir characterization of the Arab Formation (Surmeh), Eastern part of the Persian Gulf (Iranian Journal of Petroleum Geology, No.14, pp.95-104. Autumn & Winter 2017).

علمی پژوهشی ▪ **Bashari, A.**, Occurrence of heavy crude oil in the Persian Gulf, (Iranian Journal of Petroleum Geology, No.16, pp.66-77. Autumn & Winter 2018).

Invited, Keynote Speaker of International Conferences & Summits:

- Oil & Gas Expansion , Turkey 21-23 Sept. 2010. Ankara, Turkey.
- Iran Oil & Gas Summit, Dubai, 23-25 June 2014, Dubai, UAE.
- 2nd South Caspian Region Petroleum & Energy Summit, 14-16 April 2015, Vienna.
- Arabian Sea Region, Oil & Gas summit, 26-27 May 2015/Muscat, Oman.
- 3rd Annual Iran Oil, Gas & Energy week 1-3 March 2016, Istanbul, Turkey.
- 4th Iran Europe Oil & Gas Summit 1-3 November 2016 Berlin, Germany
- Iran upstream Congress., Oct 17-18, 2016., Tehran, Iran, organized by: Peak Events company, Shanghai, China.
 - International Field Exploration and Development Conference, Sept. 18-20, 2018 Xi, an China.
- International Petroleum and Petrochemical Technology conference , 26-28, March 2020 Beijing, China.

Accomplished, Research Projects:

- Bashari, Alireza., 1983, The Study of the Kangan, Dalan, and Dashtak Formations (Sedimentology, Stratigraphy Paleontology and Petroleum Geology) in the Persian Gulf, 56 pp, Internal report, Iranian Offshore Oil Co.
- Bashari, Alireza, 1984, Mishrif reservoir Extension of Falah field, (Dubai) toward Iranian water in the Persian Gulf (newly named Farzam), Internal report, Iranian Offshore Oil Co.
- Bashari, Alireza, 1984, Mishrif & Maudud reservoirs extension of Saleh field (Ras Al Khaima) toward the Iranian water in the Persian Gulf. Internal report, Iranian Offshore Oil Co.
- Bashari, Alireza, 1986, Source rock studies in the Sirri District, Eastern Persian Gulf (in Persian)
- Bashari, Alireza, 2003., Alkhalij oil field a common diagenetic oil field, between Iran & Qatar, in the Persian Gulf, Iranian Offshore Oil Co. Confidential report 32pp.
- Bashari, Alireza., 2003, study of Regional geography of the Persian Gulf, 43 pp internal report, Iranian offshore Oil Co.
- Bashari, Alireza., Rastegar, M., 1986, Optimization of Multiple Bit runs based on ROP Models and Coast Equation for one of the Persian Gulf Carbonate Reservoirs.
- Bashari, Alireza., Mozafari, M., 1385, Petrophysics, Petrography and Sequence Stratigraphy: An approach to Reservoir Characterisation of Cheleken Formation in Kazar Well in the south Caspian Sea.
- Bashari, Alireza., Rashidi, B.M., 1986, Real time Bit Wear Analysis and Drilling Optimization: a case study for a well in an oil Field , Persian Gulf.

MANUALS:

- 1-Application of Wireline Log on Sedimentary Basin (Petrophysics),
Research Institute of Petroleum Industry, (*RIPPI*) Tehran (2001).
- 2-Clay mineralogy.(2001)
- 3-Principles of Drilling Engineering in Oil & Gas Exploration. (2007).

Honors and Awards:

- 1976 -1977: Full Scholarship plus salary to attend Petroleum Geology & Petrophysics course in France (Sofiran.66 Oil Company, ELF-Iran).

- 1991 - 1995: Ph.D. Scholarship, (National Iranian Oil Company).
- 1995 - 1996: CRC Well bore Engineering Scholarship, University of New South Wales, Centre for Petroleum Engineering.
- NIOC Distinguished Researcher, 2002,2003&2004
- NIOC **Distinguished Service Award**, 2002,2003&2004
- EAGE European Association of Geoscientists & Engineers, **Distinguished Service Award, 2009.**
- **NIOC** retired, Distinguished Service Award, March 20015.

Affiliated and Associated:

Societies, Sections and major offices held:

2006-2009: President of European Association of Geoscientists & Engineers, Local Chapter,

2006-Present: President (elected) of Iranian Society of Petroleum Geology (*ISPG*).

2003-2005: 18th World Petroleum Council, Johannesburg (National Committee Member) .

2005-2008: 19th World Petroleum Council, Madrid (National Committee Member).

2008-2011: 20th World Petroleum Council, Qatar (National Committee Member).

2011-2014: 21 World Petroleum Council, Masco (National Committee Member).

Member of Research and Development Council of NIOC

1992- Present: American Association of Petroleum Geologists (**A.A.P.G, Active Member**)

2002- Present: Iranian Society of Petroleum Engineering

2010-Present: Co-Editor in chief, **Iranian Journal of Petroleum Geology.**