

# Eslam Kashi



Assistant Professor of Chemical Engineering

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## Education:

PhD Chemical Engineering	2009	University of Sistan & Baluchestan
M.Sc. Chemical Engineering	2003	University of Sistan & Baluchestan
B.Sc. Chemical Engineering	2001	Shahid Bahonar University of Kerman

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## Work Experience:

Iranian Research Organization for Science and Technology (IROST)	2012+	Sh. Ehsani Rad St., Enqelab St., Parsa Sq., Ahmadabad Mostoufi Rd., Azadegan Highway, Tehran, Iran
University of Mazandaran	2010-2012	University of Mazandaran, Babolsar, Iran
Aftab Imen Parto company	2008-2011	Unit 1, No. 4, Rezaeian Alley, Ekhtiarieh St., Kolahdooz Ave. (Doulat), Tehran, Iran.
Center for Process design, Safety & Loss prevention (CPSL)	2004-2010	Sharif University of Technology, Azadi Ave., Tehran, Iran
Islamic University of Gachsaran	2004-2009	University of Gachsaran, Iran

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## Relevant Projects:

Hydrogen Management Project ( <i>Tabriz Oil Refinery</i> )	2004
Gas to Liquid Catalysis Study ( <i>University of Sistan And Baluchestan</i> )	2005
Gas Dispersion Modeling and Consequence analysis ( <i>University of Sistan And Baluchestan</i> )	2006- 2007
HAZOP Study of Isomax Unit ( <i>Bandar Abass Oil Refinery</i> )	2006- 2007
Quantitative Risk Assessment for Pipelines and Onshore Facilities in Qeshm- Bandar Abbas Pipeline ( <i>Qeshm Oil Investment Company</i> )	2008

Natural Ventilation of Offshore Gas Platform <i>(Pars Oil and Gas Company, phase 15/16)</i>	2008
Noise Study of Offshore Gas Platform <i>(Pars Oil and Gas Company, phase 15/16)</i>	2008
Building Blast and Fire Protection Study <i>(Pars Oil and Gas Company, phase 15/16)</i>	2008
Consequence Modelling Project <i>(Gashu Gas Production Platform)</i>	2008- 2009
Consequence Modelling Project <i>(Arak Oil Refinery)</i>	2008- 2009
Safety Precautions in SPM Operation <i>(Qeshm Oil Investment Company)</i>	2009
Safety Precautions in Piggings <i>(Qeshm Oil Investment Company)</i>	2009
Consequence Modelling Project <i>(Esfahan Oil Refinery-Project Manager)</i>	2009
Risk assessment and management of 10" Amak gas pipeline and 12" Bangestan oil pipeline in Ahwaz-Karoun corridor <i>(National Iranian South Oil Company (NISOC))</i>	2010
Geometry analysis and transfer from PDMS software to Computational Fluid Dynamic (CFD) in order to process incidents consequence assessment <i>(Iranian Research Organization for Science and Technology (IROST))</i>	2013
Rare earth element detection and extraction <i>(Anguran Lead and Zinc Complex)</i>	2014

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**Additional Qualifications:**

Consequence Modelling Training Course <i>(For SAZEH Engineering Consultant)</i>	2009
Consequence Modelling Training Course <i>(For university of Sistan and Baluchestan MSC Student)</i>	2009
Consequence Modelling Training Course <i>(For National Iranian Oil Refining and Distribution Company)</i>	2009

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**Publications:**

1. E. Kashi, F. Mirzaei, and F. Mirzaei, "Analysis of Chlorine Gas Incident Simulation and Dispersion within a Complex and Populated Urban Area via Computation Fluid Dynamics." *Advances in Environmental Science and Technology*, 1.1 (2015) 49-58.
  2. E. Kashi, F. Mirzaei, and F. Mirzaei, "Analysis of gas dispersion and ventilation within a comprehensive CAD model of an offshore platform via computational fluid dynamics." *Journal of Loss Prevention in the Process Industries*, 36 (2015) 125-133.
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3. S.A.H. Razavikiya, E. Kashi, "A Field Study on the Effect of Glycol Drilling Mud on Reservoir Parameters in Mansouri Oilfield", *Research Journal of Fisheries and Hydrobiology*, 10 (2015) 696-701.
  4. F. Shahraki, D. Rashtchian, E. Kashi, "Hydrogen Distribution in Refinery with Non-Linear Programming" *International Journal of Engineering*, Volume 18 - 2, May 2005, 165-176.
  5. A. A. Mirzaei, R. Habibpour and E. Kashi, "Preparation and optimization of mixed iron cobalt oxide catalysts for conversion of synthesis gas to light olefins" *Applied Catalysis A: General* 296 (2005) 222-23.
  6. A. A. Mirzaei, R. Habibpour, E. Kashi, M. Feizi, "Characterization of iron-cobalt oxide catalysts: effect of different supports and promoters upon the structure and morphology of precursors and catalysts" *Applied Catalysis A: General* 301 (2006) 272-283.
  7. E. Kashi, F. Shahraki, D. Rashtchian, A. Behzadmehr, "Effects of Vertical Temperature Gradient on Heavy Gas Dispersion in Build up Area" *Iranian Journal of Chemical Engineering*, Vol. 6, No. 3 (Summer), 2009, IChE
  8. F. Shahraki, D. Rashtchian, E. Kashi, "Hydrogen management in refinery with pinch technology", 4th Student Congress in Chemical Engineering, 2003.
  9. F. Shahraki, D. Rashtchian, E. Kashi, "Hydrogen distribution with nonlinear programming", 9th National Congress in Chemical Engineering, 2004.
  10. A. A. Mirzaei, R. Habibpour and E. Kashi, "Preparation and optimization of mixed manganese cobalt oxide catalysts for conversion of synthesis gas to light olefins", 10th National Congress in Chemical Engineering, 2005.
  11. A. A. Mirzaei, R. Habibpour and E. Kashi, "Preparation and optimization of mixed iron cobalt oxide catalysts for conversion of synthesis gas to light olefins", 10th National Congress in Chemical Engineering, 2005.
  12. E. Kashi, D. Rashtchian, S. Mohebinia "Turbulence effect analysis on explosion modelling with CFD", 11th National Congress in Chemical Engineering, 2006.
  13. E. Kashi, D. Rashtchian, S. Mohebinia, "Gas explosion modelling in confined area and fuel concentration effect analysis", 11th National Congress in Chemical Engineering, 2006.
  14. E. Kashi, F. Shahraki, D. Rashtchian, A. Behzadmehr "Gas dispersion analysis with CFD in obstacle area", 11th National Congress in Chemical Engineering, 2006.
  15. E. Kashi, F. Shahraki, D. Rashtchian, A. Behzadmehr, "Heavy gas dispersion modelling: Kit Fox field experiment analysis", 2st national conference on Safety Engineering, Loss Prevention and HSE Management, 2008.
  16. E. Kashi, F. Shahraki, D. Rashtchian, A. Behzadmehr, "Effects of vertically temperature gradient on heavy gas dispersion in build up area", 12st National Congress in Chemical Engineering, 2008.
  17. E. Kashi, F. Shahraki, D. Rashtchian, A. Behzadmehr, "Heavy Gas Dispersion Modeling Over a Complex Train with Computational Fluid Dynamic" 11th fluid dynamics conference, K.N. Toosi university of technology, may 2008.
  18. E. Kashi, F. Shahraki, D. Rashtchian, S. Mohebinia, "Gas dispersion and explosion in build-up area", *Amir Kabir Journal*, vol. 68, 2008.
  19. Book Translation to Persian: Joaquim Casal, "Evaluation of the effects and consequences of major accidents in industrial plants", Elsevier, 2008.
  20. E. Kashi, S. Nasehpour, H. Kareshki, M. Farmad, "Consequence modelling in refineries", 3st national conference on Safety Engineering, Loss Prevention and HSE Management, 2010.
  21. N. Zeinali, A. Rad, H. Kareshki, E. Kashi, "Risk assessment and domino effects in pipeline corridor", 3st Iranian Pipe & Pipeline Conference, Tehran, 2011.
  22. E. Kashi, S. Nasehpour, "Oil and Gas Transfer Pipeline Integrity Management Effects on Risk Mitigation", 3st Iranian Pipe & Pipeline Conference, Tehran, 2011.
  23. H. Shakeri, F. Shahraki, E. Kashi, "Toxic gas dispersion sensitivity analysis in PHAST software", 6th National conference & exhibition on environmental engineering, 2012.
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24. E. Kashi, H. Bahmanpour, S. Habibpour, "Risk assessment in NGL 1200 Gas refinery", 14th Iranian National Chemical Engineering Congress, 2012.
  25. N. Setaresheenas, F. Shahraki, E. Kashi, M. Sardashti, "Consequence Assessment of Chlorine Release in Water Treatment Plant of Rasht" 13th Iranian National Chemical Engineering Congress & 1st International Regional Chemical and Petroleum Engineering, Kermanshah, Iran, 2010.
  26. R. ParviziMoghaddam, F. Shahraki, E. Kashi, "CFX Ability Assessment Compared with ALOHA and PANACHE, in Simulation of KitFox Field Experiment" 13th Iranian National Chemical Engineering Congress & 1st International Regional Chemical and Petroleum Engineering, Kermanshah, Iran, 2010.
  27. E. Kashi, A. Safari, Methane-air mixture explosion simulation and the increasing pressure of the turbulent flame propagation in large scale by the CFD Analysis, 5th National Conference on CFD Application in Chemical & Petroleum Industries, 2014.
  28. E. Kashi, F. Mirzaei, and F. Mirzaei, "Gas dispersion and ventilation assessment in offshore plant with computational fluid dynamic", 5th National Conference on Safety Engineering and HSE Management, 2013.
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**Special Experience and skills:**

Modelling with CFD code (Ansys CFX, Ansys Workbench, Fluent)

Consequence modelling by PHAST

Process and Equipment Design

Hazard identification in process industry, specially by HAZOP

Familiar with chemical engineering software such as HYSYS, Aspen plus, PHA-Pro, ALOHA

Familiar with general software such as windows, Microsoft Office, Utility, Internet Explorer