

Personal Bio

Vital Stats

Full Name: Ghazal Izadi

Affiliation: Baker Hughes

Position: Reservoir and Stimulation Lead



Biography

Dr. Izadi received her Ph.D. in petroleum engineering from Energy and Mineral Engineering department, Pennsylvania State University in 2012. Of primary interest in her past and current research is to understand the rock deformation and fluid transport in fractured reservoir that are stressed through mechanical, hydraulic, and thermal means. In this regard, she has worked on developing a thermal-hydrologic-chemical, multi-phase, multi-component flow simulator with a comprehensive geomechanical deformation code during her PhD. She has joined Baker Hughes on September 2012 as a research scientist in shale engineering. Her current responsibilities at BHI include technical development of ARGOS (fully coupled 3-D hydraulic fracture simulator for unconventional), interfacing with Baker Hughes Reservoir Development Services and leading the reservoir simulation projects; with focus on developing numerical models to simulate the complex fracture network (3D) while taking into account the influence of natural fractures on the in-situ stress distribution in the formation is important to reservoir stimulation.

Education

- Ph.D. Energy and Mineral Engineering, Pennsylvania State University, University Park, Pennsylvania, 2012
- M.Sc. Applied Mathematics, Iran University of Science and Technology, Tehran, Iran, 2007
- B.Sc. Applied Mathematics, Shiraz University, Shiraz, Iran, 2004

Awards and Major Publications

- Izadi, G., Gaither, M., Fu, P., Cruz, L., Baba, C., Moos, D., 2015. Fully 3D Hydraulic Fracturing Model: Optimizing Sequence Fracture Stimulation in Horizontal Wells. 49th US Rock Mechanics/Geomechanics Symposium. June 28-July 1, 2015. San Francisco, CA.

- Izadi,G., Settgast, R., Moos,D., Baba, C., Jo, H., 2015. Fully 3D Hydraulic Fracturing Growth within Multi-Stage Horizontal Wells. International Congress on Rock Mechanics. Montreal, Quebec, Canada, 10-13 May 2015.
- Izadi, G., Elsworth, D. (2014). The Influence of Thermal- Hydraulic- Mechanical- and Chemical Effects on the Evolution of Permeability, Seismicity and Heat Production in Geothermal Reservoirs; Geothermics 53 (2015) 385–395.

Awards

- 2012: Charles B. Darrow Award, Energy and Mineral Engineering, Penn State University.
- 2012: IAAP Award at Penn State University.
- 2012: Advisory Search Committee for Head of the Department of Energy and Mineral Engineering.