

PERSONAL INFORMATION:

Name: Kamran Goshtasbi Goharizi

EDUCATIONAL RECORDS:

<u>Degree</u>	<u>Institution</u>	<u>Field</u>	<u>Date</u>
B. Sc	University of Newcastle, England	Mining Eng.	1983
Ph.D.	University of Nottingham, England	Rock Mechanics	1987

ACADEMIC EXPERIENCES:

- Associate professor - Tarbiat Modarres University, Tehran, Iran, (Since 2008)
- Assistant professor - Tarbiat Modarres University, Tehran, Iran, (1993-2008)
- Post Doctoral research fellow - Imperial College of Science & Technology, London (From 1989-1992)

RESEARCH INTERESTS:

- 1) Petroleum Geomechanics
- 2) Hydraulic Fracturing
- 3) Rock Dynamics
- 4) Design and Stability of Underground excavations

RESEARCH PROJECT LEADER:

- 1) EEC Project, the use of Rock mech. in the Design of mine Pillar
- 2) EEC Project, Cut and fill mining
- 3) The Effect of Seismic Loads on Tunnels

RESEARCH STUDENTS SUPERVISED:

55 M.Sc. students, 6 Ph.D.
students

RESEARCH STUDENTS CO-SUPERVISED

38 M.Sc. students, 8 Ph.D.
students

COURSES TAUGHT: M.Sc. and Ph.D.

- 1) Rock Mechanics
- 2) Tunneling
- 3) Rock Dynamics
- 4) Petroleum Geomechanics
- 5) Instrumentation and in-situ tests
- 6) Underground Excavation

JOURNAL PAPERS:

- 1) Esfandiari, B., Abrishamifar, K., Goshtasbi, K., " Finding and sorting the three dimensional push back extraction scenarios from maximum to minimum net present value by integer programming in open pit mine, International journal of Engineering science, vol. 2, 2004.
- 2) Asadi, A., Shahriar, K. Goshtasbi, K., " Profiling Function for Surface Subsidence Prediction in Mining induced Coal Seams, Journal of Mining Science, Vol.40, No.2,2004.
- 3) Asadi, K., Shahriar, K., Goshtasbi, K., Najm, K., " Development of a new Mathematical Model for prediction of Surface Subsidence due to induced Coal-Seam Mining, The Journal of the South African Institute of Mining and Metallurgy, Vol.105, No.1, 2005.
- 4) Goshtasbi. K., Khodadadi, D., " Determination of Optimum Block Size in the Mining of Ornamental Stones by Diamond Wire", The Journal of Geoscience, No. 55, 2005.
- 5) Goshtasbi, K., Ahmadi, M., Seydi, J., " Anisotropic Strength behavior of Slates in the Sirjan-Sanandaj Zone, The Journal of the South African Institute of Mining and Metallurgy, Vol.106, No.1, 2006.
- 6) Goshtasbi, K., Oraee, K., Khakhpour, F., " Selection of Shield Support with respect to Coal Seam Geometric Characteristics, Journal of Mining Science, 2006.
- 7) Ahmadi, M, Goshtasbi, K., Zoorabadi, M., " Probabilistic Analysis of Slopes", International Journal of Engineering Science, 2007.09.15
- 8) Goshtasbi, K., Ahmadi, M., Naeemi, Y., " An efficient method for finding the critical surface slip surface using the Monte Carlo

- technique", Journal of Geoscience ,2007(To be published)
- 9) Monjezi,M., Goshtasbi, K., Rezakhah, M., Singh, T.N., "Design of stable slopes for the Songun copper mine ",Mining Technology, Maney Publishing ,2007.
 - 10) Ahmadi, M, Goshtasbi,K., Ashjari, A., " 2-D and 3-D analysis of underground openings in an inhomogeneous rock mass", Iranian Journal of Science & Technology,2007.
 - 11) Ahmadi, M., Goshtasbi, K., Rashidi, R. "In", Iranian Journal of Mining Engineering,Vol.2, No. 4, pp 47-54, 2008.
 - 12) Goshtasbi,K., Ataei, M., Kalatejary, R., "Slope Modification of open pit wall using a genetic algorithm-Case study:southern wall of the 6th Golbini Jajarm bauxite mine", The journal of the South African institute of Mining and Metallurgy vol. 108, 2008.
 - 13) Balideh, S., Goshtasbi, K., Aghababaei, N., Merzai, H. "Seismic Analysis of Underground Spaces to Propagation of Seismic waves", Journal of Applied Sciences, pp1615-1627, 2009.
 - 14) Ghazvinian, A.H., Goshtasbi, K., Ghasempour, N., " Designing and Optimizing Support System- Case Study: Tabriz Metro Single Tunnel", Journal of Rock Mechanics and Tunnelling Technology", Vol.15, No. 1., 2009.
 - 15) Goshtasbi,K., Monjezi,M., Tougoli, P. Evaluation of boring machine performance with special reference to geomechanical characteristics, International Journal of Minerals, Metallurgy and Materials,2009.
 - 16) Goshtasbi,K., Islami,M. Investigation of Dynamic Response for Blast Hole Wall in Rock Excavations, Journal of Rock mechanics and tunnelling technology,2009.
 - 17) Bakhtiari, Moossavi,A., Goshtasbi,K. The effect of rock type on pore volume compressibility of limestone and dolomite samples, Geopersia, 2010.
 - 18) Behnia, M., Goshtasbi, K., Fatehi,M., Golshani,A. On the crack propagation modeling of hydraulic fracturing by a hybridized displacement discontinuity/boundary collocation method, Journal of Mining and Environment, 2011.
 - 19) Ebrahimabadi, A., Goshtasbi, K., Shariar, K., Cheraghi, H. Predictive Models for Roadheaders' Cutting Performance in Coal Measure Rocks, Yerbilimleri, 2011.
 - 20) Ebrahimabadi, A., Goshtasbi, K., Shariar, K., Cheraghi, H. A Model To Predict the Performance of Roadheaders based on the Rock Mass Brittleness Index, The journal of the South African institute of Mining and Metallurgy, 2011.
 - 21) Golestanifar, M., Goshtasbi, K., Gafarian, A. A multi-dimensional approach to the assessment of tunnel excavation methods, International Journal of Rock Mechanics & Mining Sciences, 2011.
 - 22) Bakhtiari, Moossavi,A., Goshtasbi,K. The effect of rock type on pore volume compressibility of limestone and dolomite samples, Geopersia, 2010.
 - 23) Behnia, M., Goshtasbi, K., Fatehi,M., Golshani,A. On the crack propagation modeling of hydraulic fracturing by a hybridized displacement discontinuity/boundary collocation method, Journal of Mining and Environment, 2011.

- 24)
- 25) Goshtasbi, K., Elyasi, A., Naeimipour, A. Numerical assessment of the mechanical stability in vertical, directional and horizontal wellbores, *International Journal of Mining Science and Technology*, 2013.
- 26) Goshtasbi, K., Elyasi, A., Naeimipour, A. 3D numerical stability analysis of multi-lateral well junctions, *Arab J. of Geoscience*, 2013.
- 27) Elyasi, A., Goshtasbi, K., Saeidi, O., Torabi, S.R. Stress determination and geomechanical stability analysis of an oil well of Iran, *Sadhana*, 2013.
- 28) Moosavi S. A., Goshtasbi, K., Kazemzadeh, E., & H. Alokhi Bakhtiari & M. R. Esfahani & J. Vali. Relationship between porosity and permeability with stress using pore volume compressibility characteristic of reservoir rocks, *Arab J. of Geoscience*, 2014.
- 29) Goshtasbi, K., Elyasi, A., Naeimipour, A. Stability Assessment of a Dual-Opposing Well Junction, *Petroleum Science and Technology*, 2014.
- 30) Dehghan, A., Goshtasbi, K., Ahangari, K., Jin, Y. Experimental investigation of hydraulic fracture propagation in fractured blocks, *Bull Eng. Geol Environ*, 2014.
- 31) Behnia, M., Goshtasbi, K., Fatehi, M., Golshani, A. Numerical simulation of crack propagation in layered formations, *Arab J. of Geoscience*, 2014.
- 32) Behnia, M., Goshtasbi, K., Fatehi, M., Golshani, A. Numerical simulation of interaction between hydraulic and natural fractures in discontinuous media, *Acta Geotechnica*, 2014.
- 33) Elyasi, E., Goshtasbi, K., Hamid Hashemolhosseini and Sharif Barati. Coupled solid and fluid mechanics simulation for estimating optimum injection pressure during reservoir CO₂-EOR, *Structural Engineering and Mechanics*, 2016.
- 34) Elyasi, E., Goshtasbi, K. and Hashamalhossieni, H. A Coupled Thermo-hydro-Mechanical simulation of reservoir CO₂ Enhanced oil recovery, *Energy and Environment*, vol 27, 1016.
- 35) Dehghan, A., N., Goshtasbi, K., Ahangari, K. and Jin, Y. 3D Numerical Modeling of the Propagation of Hydraulic Fracture at Its Intersection with Natural (Pre-existing) Fracture, *Rock Mechanis and Rock Engineering*, 2016.
- 36) Elyasi, E., Goshtasbi, K. and Hashamalhossieni, H. A coupled geomechanical reservoir simulation analysis of CO₂ – EOR: A case study, *Geomechanics and Engineering*, 2016.
- 37) Shirinabadi, R., Moarefvaand, P., Goshtasbi, K. and Ahangari, K. The Physical and Numerical Modeling of Sand Production and Gravel Pack in Oil Wells by Designing and Manufacturing the Machine and Presenting a Relation Estimating Sand Production Rate, *Mineral Mining Tehnology*, 2016.

CONFERENCE AND SEMINARS PAPERS

- 1- Goshtasbi, K.G. & Hosseini, M."The use of Empirical Methods in Rock slope stability", The 4th Symposium of Geological Society of Iran, Tabriz,Iran, 2000.
- 2- Goshtasbi, K.G. & Hosseini, M."Stability analysis of Maydook copper mine", 9th International Symposium on Mine Planning and Equipment Selection, Athena, Greece, 2000.
- 3- Goshtasbi, K.G. & Mohammadi, M."The effect of shock load on the stability of tunnels", 9th International Symposium on Mine Planning and Equipment Selections, Athena, 2000.
- 4- Goshtasbi,K.G. and Dehghan,S.F."Stability analysis and support design of Glandroud coal mine tunnel", 17th International Mining Congress and Exhibition of Turkey,Ankara,Turkey,2001.
- 5-Goshtasbi,K.G. and Taheri Tavakol,M."The stability analysis of tunnels driven in jointed rock masses of Jahrom formation",the 2001 ISRM International Symposium,Beijing,China,2001.
- 6-Goshtasbi.K.G. and Dehghan,S.F."The role of geotechnical parameters in investigating mining excavations", 2nd Symposium of Engineering Geology of Iran,Tehran,Iran,2001.
- 7-Goshtasbi,K.G.,Nickkah,M. and Daliri,M."Investigation of Methods to predict the bearing capacity of rock foundations",1st Iranian Rock Mechanics Conference,Tehran,Iran,2001.
- 8-Khoshboresh,A. and Goshtasbi,K.G.,1st Iranian Rock Mechanics Conference,Tehran,Iran,2001.
- 9- Goshtasbi, K., Azizmohamadi, d., " Geomechanical Characteristics of Kaka Reza water conveyance tunnel", 21st Symposium on Geosciences, Tehran, Iran, 2003.
- 10- Goshtasbi, K., Alikaei, S., " Investigation of the Engineering Geology Characteristics of Damaghan water conveyance tunnel", 21st Symposium on Geosciences, Tehran, Iran, 2003.
- 11- Goshtasbi, K., Langari, A., " The Investigation of Permeability in Kermanshah Dam", The 3rd national conference on Engineering Geology and The Environment, Hamadan, Iran, 2003.
- 12- Goshtasbi, K., Osanloo, M., Kazemini, A., " Slope Stability Analysis of Gol-E-Gohar Mine using Limit Equilibrium, Empirical and Numerical methods", Fourth International Conference on Computer Applications in the Mineral Industries, CAMI 2003, Canada, 2003.

- 13- Goshtasbi, K., Khakhsaz, Razavi, " Slope Stability Analysis of Alborz Dams Spillway using Limit Equilibrium and Numerical methods", Fourth International Conference on Computer Applications in the Mineral Industries, CAMI 2003, Canada, 2003.
- 14- Taghizadeh, Ahmadi, M., Goshtasbi, K., Optimum Drill and Blast Patterns in Tunnel no 4 of Yasouj", 6th tunnel Conference, Tehran, Iran, 2004.
- 15- Goshtasbi, K., Pourkhandani, R., Sadeghi, M., " Design of Ventilation system of Razi Coal Mine", The 5th congress on Safety, Occupation and Environmental Health in Mines and Related Industries, Kerman, Iran, 2004.
- 16- Goshtasbi, K., Moosazadeh, M., " Investigation of Geomechanical Parameters of Masjed Soleyman Dam, 22nd Symposium on Geosciences, Tehran, Iran, 2004.
- 17- Ahmadi, M., Goshtasbi, K., " Statistical Stability Analysis of Doona Land slide in Sia Bishe Dam, 2nd Iranian Rock Mechanics Conference, Tehran, Iran, 2004.
- 18- Oraee, K., Goshtasbi, K., Khakhsaz, F., " Prediction of Cyclic Load on Long wall Panel roof", Iranian Mining Engineering Conference, Tehran, Iran, 2005.
- 19- Ahmadi, M., Goshtasbi, K., Ashjari, R., " 3-D Analysis of stresses and strains around Circular Tunnel", Proceeding of 4th Iranian Conference of Engineering Geology and the Environment, Tehran, Iran, 2006.
- 20- Monjezi, M., Goshtasbi, K., Rezakhah, M., " A Mathematical Equation for Determination of Pit Slope of Songun Copper Mine", 24th Symposium on Geosciences, Tehran, Iran, 2006.
- 21- Goshtasbi, K., Assadi, M., "Two dimensional modeling and stability analysis of slopes overlaying to Shahid Ragaee power plant", 4ICEGE, Greece, 2007.