

CURRICULUM VITAE

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EDUCATION: *PhD*, Soil Science, University of California, Davis, March 1992.

MS, Soil Science, University of California, Davis, June 1987.

BS, Soil Science, California Polytechnic State University,
San Luis Obispo, December 1983.

POSITIONS HELD:

Associate Proff., Soil Science Dept., Tarbiat Modares University. 2005 to present.

President of West Asia and North Africa Division, International Association of Science Parks and Arias of Innovatrion (IASP). 2014 to present.

CEO, Vision Consulting Group. 2015 to present.

General Director of Technology, Ministry of Science, Research and Technology
Feb. 2013 to 2014.

CEO, Iranian Business School, Ministry of Science, Research and Technology
Feb. 2010 to 2013.

Member of Advisory Council, International Association of Science Parks and Arias of
Innovatrion (IASP). 2008-2010.

Deputy Minister of Technology, Ministry of Science, Research and
Technology Feb. 2004 to 2005.

President, Isfahan Science and Technology Town. Dec. 2001 to Feb. 2004.

Vice President for Research and Technology, Isfahan Science and Technology Town. July
2000 to 2001.

Director, Central Library, Isfahan Univ. of Technology. 1996 to 2000.

Chair, Graduate Division, College of Natural Res. Isfahan Univ. of Technology. 1995 to
1996.

Chair, Dept. of Range and Water Management, College of Natural Res., Isfahan Univ. of
Technology. 1994 to 1995.

Assoc. Prof., Soil Science Dept., Isfahan Univ. of Technology. 2001 to 2005.

Assis. Proff., Soil Science Dept., Isfahan Univ. of Technology. 1992 to 2001.

Teaching Assistant, Dept. of Land, Air and Water Resources,
University of California, Davis. 1987 to 1992.

Research Assistant, Department of Land, Air, and Water Resources,
University of California, Davis. 1985-1992.

RESEARCH INTEREST:

Pedology, Arid soils, Desertification, Soil geomorphology, Aerial photo interpretation,
Remote sensing, Science and Technology Parks.

COURSES TAUGHT:

Undergraduate: Soil Mapping

Graduate: Soil Micromorphology, Geomorphology, Quaternary Geology,
Soil Genesis Morphology and Classification

MEMBERSHIPS:

Soil Science Society of Iran (elected as member of Board of Directors 2001-2003)
People for Protecting the Environment and Natural Resources (Green Message)

ACADEMIC EXPERIENCE:

2005 to present, College of Agriculture, Tarbiat Modares University.

1992-2005 College of Agriculture and School of Natural Resources, Isfahan Univ. of
Technology

1996-2016 Advisor to 12 Ph.D. students

1993-2016 Advisor to 40 M.S. students

1992-2016 Coordinator of several research projects

1985-1992 Teaching and Research Assistant in Univ. of California, Davis.

PUBLICATIONS:

Yazdani, N., M. H. Farpoor and M. K. Eghbal, 2016. Physical, Chemical, micromorphological and mineralogical properties of soils containing zeolite in Rafsanjan area. Water and Soil Conservation Research. (in press)

Hamzehpour, N., M. K. Eghbal, N. Toomanian, R. Sokouti Oskouei and P. Bogaert. 2015. Uncertainty Assessment of the Soil Salinity Boundary in Urmia Plane Using Bayesian Maximum Entropy Method. Journal of Soil Management and sustainable production. Vol. 5 (2): 131-147.

Sarmast, M., M. H. Farpoor, M. Sarcheshmehpoor, and M. K. Eghbal, 2014. Effect of biological Calcite on physical properties of sandy soils. Journal of Sciences and Technology of Agriculture and Natural Resources. Vol. 18, No. 68: 69-77. (in Farsi)

Sarmast, M., M. H. Farpoor, M. Sarcheshmehpoor, and M. K. Eghbal, 2014. Micromorphological and Biocalcification Effects of *Sporosarcina pasteurii* and *Sporosarcina ureae* in Sandy Soil Columns. Journal of Agricultural Science and Technology. Vol. 16 (in press)

- Bayat, O, H. R. Karimzadeh, M. K. Eghbal and H. Khademi. 2013. Pedogeomorphic evolution of an alluvial fan in central Iran. *Iranian Journal of Natural Resources*. Vol. 66, No. 2 (in press). (in Farsi)
- Hamzehpour, N., M. K. Eghbal, P. Bogaert, N. Toomanian and R. S. Sokouti. 2013. Spatial Prediction of Soil Salinity Using Kriging with Measurement Errors and Probabilistic Soft Data. *Arid Land Research and Management*. 27:128–139.
- Moravej, K., M. K. Eghbal, N. Toomanian and S. Mahmoodi. 2012. Comparison of automated and manual landform delineation in semi detailed soil survey procedure. *African Journal of Agricultural Research* Vol. 7, No. 17:2592-2600.
- Moghiseh, E, A. Heidari, M. Ghanadi Maragheh, H. Towfighi, F. Sarmadian and M. K. Eghbal. 2012. Effects of Forestland Change on Physico-chemical Properties, SOC Storage and Soil Respiration in Kelardasht Area. *Iranian Journal of Soil and Water Research*. Vol. 43, No. 1:37-46.
- Farpour, M. H., M. Neyestani, M. K. Eghbal and I. Esfandiarpour Borujeni, 2012. Soil–geomorphology relationships in Sirjan playa, south central Iran. *Geomorphology* 138: 223–230.
- Sanjari, S, M. H. Farpour, M. K. Eghbal, and I. Esfandiarpour. 2011. Genesis, micromorphology and clay mineralogy of soils on different geomorphic surfaces in Jiroft, Keram. *Journal of Water and Soil*. Vol. 25, No. 2:411-425 (in Farsi)
- Khalili-Rad, M, F. Nourbakhsh¹, A. Jalalian¹, and M. K. Eghbal. 2011. The Effects of Slope Position on Soil Biological Properties in an Eroded Toposequence. *Arid Land Research and Management*, 25:308–312.
- Sheklabadi, M., H. Khademi, M.K. Eghbal, E.G. Gregorich and P. St.-Georges. 2009. Overgrazing and climate induced soil biological degradation in central Zagros, Iran. In: A. Faz Cano, A.R. Mermut, J.M. Arocena & R. Ortiz Silla (ed.) *LAND DEGRADATION AND REHABILITATION - Dryland Ecosystems - Advances in GeoEcology* 40, GeoScience Publisher. Reiskirchen, Germany.
- Valipour, M, M. K. Eghbal, M. J. Malakouti, and A. H. Khoshgoftarmansh. 2009. The effects of land use change on land degradation and soil salinity in Shamsabad region in Qom province. *Journal of Sciences and Technology of Agriculture and Natural Resources*. Vol. 12, No. 46: 683-691. (in Farsi)
- Salehi, M. H., V. Mohammadi, H. Khademi, and M. K. Eghbal 2007. Upgrading the estimation of surface soil properties by combining traditional soil maps with kriging. *Agricultural Science Journal of Shahid Chamran University*. Vol. 30, No. 4B: 93-106.
- Sheklabadi, M., Khademi, H, Eghbal MK, and Nourbakhsh, F. 2007. Effects of climate and long-term Exclusion on selected soil biology quality indicators in rangelands of central Zagros. *Journal of Sciences and Technology of Agriculture and Natural Resources*. Vol. 11, No. 41: 103-116. (in Farsi)
- Majdi H, Eghbal MK, Karimzadeh HR, and Jalalian A. 2006. Effect of Different Clay Mulches on the Amount of Wind Eroded Materials. . *Journal of Sciences and Technology of Agriculture and Natural Resources*. Vol. 10, No. 3(A): 137-149. (in Farsi)
- Toomanian N, Jalalian A, Khademi H, Eghbal MK and Papritz A. 2006. Pedodiversity and pedogenesis in Zayandeh-rud Valley, central Iran. *Geomorphology* 81 (3-4): 376-393 NOV 29.
- Ayoubi, S., M. K. Eghbal, and A. Jalalian 2006. Study of Micromorphological Evidence of Climate Change During Quaternary Recorded in Paleosols from Isfahan. *Journal of Sciences and Technology of Agriculture and Natural Resources*. Vol. 10, No. 1: 137-151. (in Farsi)
- Torabi, G. H., M. K. Eghbal and A. Jalalian. 2005. Mineralogy of soils and differentiation of hydroxyl interlayer smectite from vermiculite on Sefidrud river terraces in central Gilan Province. *Iranian Journal of Crystallography and Mineralogy*. Vol. 13, No. 1:107-120. (in Farsi)
- Salehi, M. H., H. Khademi, M. K. Eghbal and A. R. Mermut. 2004. Stable Isotope geochemistry of carbonates and organic carbon in selected soils from Chaharmahal Bakhtiari Province, Iran. *Communications in Soil Science and Plant Analysis*. Vol. 35, No. 11-12: 1681-1697.
- Farpour, M.H., H. Khademi, M.K. Eghbal, and H.R. Krouse. 2004. Mode of gypsum deposition in southeastern Iranian soils as revealed by isotopic composition of crystallization water. *Geoderma* 121:233-242.
- Toomanian, N., A. Jalalian and M. K. Eghbal. 2003. Application of the WRB (FAO) and US Taxonomy Systems to gypsisferous soils in Northwest of Isfahan, Iran. *Journal of Agricultural Science and Technology*. 5:51-66.

- Farpour, M. H., M. K. Eghbal and H. Khademi. 2003. Genesis and micromorphology of saline and gypsiferous Aridisols on different geomorphic surfaces in Nough area, Rafsanjan Iran. *Journal of Sciences and Technology of Agriculture and Natural Resources*. Vol. 7, No. 3: 71-93. (in Farsi)
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- Salehi, M. H., H. Khademi and M. K. Eghbal. 2003. Identification and genesis of clay minerals in soils from Farrokhsahr Area, Chaharmahal and Bakhtiari Province. *Journal of Sciences and Technology of Agriculture and Natural Resources*. Vol. 7, No. 1: 73-90. (in Farsi)
- Salehi, M. H., M. K. Eghbal and H. Khademi. 2003. Comparison of soil variability in a detailed and a reconnaissance soil map in central Iran. *Geoderma*. 111: 45-56.
- Ayoubi, S., A. Jalalian, M. K. Eghbal, H. Khademi and M. H. Rouzitalab. 2002. Identification and genesis of clay minerals in two paleosols from Sepahanshahr (Esfahan) and Emam-Gheis (Chaharmahal-Bakhtiari). *Iranian Journal of Crystallography and Mineralogy*. Vol. 10, No. 2:157-178. (in Farsi)
- Khademi H., M. H. Farpour, M. K. Eghbal and A. R. Mermut. 2002. Palygorskite occurrence in central Iranian Aridisols and sediments. p. 60-74 *In* A. Faz, R. Ortiz and A. R. Mermut (ed.) *Sustainable Use and Management of Soils in Arid and Semiarid Region*. Vol. I. Proc. International Symposium on Sustainable Use and Management of Soils in Arid and Semiarid Region. September 22-26, 2002. Cartagena, Spain.
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- Ashtari, A. M. K. Eghbal and V. Chitsaz. 2002. Geomorphological study of Sistan using R.S. data. Vol. 2 of *Proceedings of the First National Conference on "Water Mitigation Strategies"*. March 9 – 10, 2002. Zabol, Iran (in Farsi).
- Farpour, M. H., H. Khademi and M. K. Eghbal. 2002. Genesis and distribution of palygorskite and associated clay minerals in Rafsanjan soils on different geomorphic surfaces. *Iran Agricultural Research*. Vol. 21, No. 2: 39-60.
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- Torabi Golsefid H., M.K. Eghbal and J. Givi. 2001. Clay mineralogy of paddy soils developed on different landforms in the east of Gilan province, north of Iran. *Soil and Water Science J*. Vol. 15, No. 1:122-138. (in Farsi)
- Torabi Golsefid H., M.K. Eghbal and M. Kalbasi. 2001. Reduction and redox morphology of the paddy soils on different landforms in Gilan province, northern Iran. *Iranian Journal of Agricultural Science*. Vol. 32, No. 2:331-343. (in Farsi)
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- Farpour M. H., S. Ayoubi and M. K. Eghbal. 2001. Methods for palaeoclimatological studies. *Proceedings of the First National conference on Drought*, March 1st and 2nd 2001, Kerman, Iran. pp. 440-450. (in Farsi)

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PUBLICATIONS ON SCIENCE PARKS AND INCUBATORS

- Eghbal, M. K., M. Keshmiri, M. J. Sadigh, A. Nadjafooshani and B. Hosseinkhani. 2011. Networking among science and technology parks, incubators and research organization for the Gas Development Zone in Iran. Proceedings of International Conference on Science and Technology Parks, ASPA-IASP 2011, Isfahan, Iran.
- Davaie-Markazi, A. H., M. K. Eghbal, A. Nadjafooshani, S. Pakseresht, N. Jahangard, and M. Abbas. 2011. Towards the Establishment of Iran Natural Gas Development Zone. Proceedings of International Conference on Science and Technology Parks, ASPA-IASP 2011, Isfahan, Iran.
- Parry, M., D. S. OH and M. K. Eghbal. 2010. Business plan for the development of a science and technology park in the University of The Gambia. UNESCO-ISESCO supported study for the government of Gambia.
- Eghbal, M. K., A. Najafooshani, H. Asghari and A. Fathi. 2010. Science and Technology Parks and Incubators to Promote University - Industry Collaboration in Iran. Proceedings of the International Training Workshop on Science Park & Technology Business Incubator, Triple Helix Model of Innovation: Government-Academia-Business Cooperation, 2010. Daedeok, Korea.
- Eghbal, M. K., A. H. Davai Markazi, M. Keshmiri and R. Navvabpour. 2010 A model for university owned and operated Science and Technology Park in Iran. Proceedings for the XXVII IASP World Conference on Science and Technology Parks, 2010. Daedeok, Korea.
- Asghari, H., M. K. Eghbal, and A. Fathi. 2010. National Growth Hub; an approach for national collaboration among STPs/Incubators in Iran. Accepted for the XXVII IASP World Conference on Science and Technology Parks, 2010. Daedeok, Korea.
- Davai Markazi, A. H., M. K. Eghbal, M. Keshmiri, M. J. Sadigh and M. Abbasi. 2010. Conceptual Design of the Iran Gas Development Zone. Accepted for the Conference on Knowledge Based Sustainable Development of Pars Special Economic Energy Zone. 2010. Asalooeyeh, Iran.
- Keshmiri, M. and M.K. Eghbal (Editors) 2006. Book of abstracts and selected papers, IASP Asian Divisions Conference, 10th ASPA Annual Conference and the 3rd Iranian National Conference on Science and Technology Parks. September 16 -19, 2006. Isfahan, Iran.
- Davai Markazi, A. H., M. K. Eghbal and M. Keshmiri. 2004. Seven Theories for Technology Development in Knowledge-Based Economies. Proceedings of the 51st Colloquium of Deans of Universities and Heads of Science and Research Centers of Iran (CD). January 5- 6, 2005. Univ. of Tehran. Iran.. (in Farsi)
- Moradi, R. M. Keshmiri, E. Roustazadeh and M. K. Eghbal. 2004. Support Service Systems for STPs in Developing Countries: The Experience of Sheikh Bahai Technology Park, IASP Asia-Pacific Conference on Science and Technology Parks 24 -25 June, 2004. Bangkok, Thailand.
- Eghbal, M. K., K. Asghari, M. Keshmiri and M. J. Sadigh. 2003. Incubation and pre-incubation periods: precursors to business development by university graduates. 2003. Proceedings of the 47th Colloquium of Deans of Universities and Heads of Science and Research Centers of Iran. January 30- February 1, 2003. Isfahan Univ. of Technology. Isfahan. Iran. pp. 261-266. (in Farsi)

Eghbal, M. K. 2003. Establishing Technology Parks Next to Universities: Opportunities and Threats. Proceedings of The 7th National Congress on Government-University-Industry Relations for National Development. Dec. 16-18, 2003. Isfahan Science and Technology Town. Isfahan, Iran. pp. 57-72. (in Farsi)

Eghbal, M.K., M. Keshmiri, K. Asghari, and E. Roustazadeh. 2003. Incubators and universities: How to overcome cultural barriers against innovation. Proceedings of the XX International Association of Science Parks World Conference. June 1-4, 2003. Lisboa, Portugal. pp. 324-329.

Eghbal, M. K. 2003. Developing Incubators and Science Parks in Iran: Cooperation and Synergy among Organizations or Competition?. Proceedings (CD) of The First Workshop on Science and Technology Parks and Incubators in Iran. May 20-21, 2003. Isfahan Science and Technology Town. Isfahan, Iran. (in Farsi)

Mahdavi, H., M. Keshmiri and M.K. Eghbal. 2003. The role of science and technology parks on activity of R&D units in Industry and Mine Sectors. The 4th Congress of Industry and Mine R&D Units. Tehran. December, 2003.

Roustazadeh, E., M.K. Eghbal and M. Keshmiri. 2003. Situation and perspectives of business incubators, technology parks and entrepreneurship promotion in Iran. ADT 2003 Conference and InfoDev Workshop. Berlin, September, 2003.

Keshmiri, M., R. Moradi, M. K. Eghbal and E. Roustazadeh. 2002. Marketing experience for SMEs in a governmental sponsor incubator in Iran. Proceedings of European Conference on Science and Technology Parks, June 9-11, 2002. Tallinn, Estonia. pp. 93-101.

Sadigh, M. J., M. K. Eghbal and F. Ghadiri. 2002. The role of science parks in research development in universities. Proceedings of the 44th Colloquium of Deans of Universities and Heads of Science and Research Centers of Iran. January 1-3, 2002. Sharif Univ. of Technology. Isfahan. Iran. pp. 211-219. (in Farsi)

Eghbal, M. K., M. Keshmiri and R. Moradi. 2002. The role of incubators in entrepreneurship activities of university graduates: The experience of Isfahan Science and Technology Town. Proceedings of the 44th Colloquium of Deans of Universities and Heads of Science and Research Centers of Iran. January 1-3, 2002. Sharif Univ. of Technology. Isfahan. pp. 243-256. Iran. (in Farsi)

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Eghbal M. K. 2001. The role of science parks in science and technology policies in East Asia. Proceedings of Science and Technology Conference, Future and the Strategies. Center for Strategic Research, January 9-10 2001, Tehran, Iran. pp. 387-395. (in Farsi)