

## Curriculum Vitae

M. Hadi Khoshtaghaza (Ph.D.)

Associate Professor of Agricultural Machinery Engineering

### × PERSONAL INFORMATION:

Name: Mohammad Hadi Khoshtaghaza

Date of Birth: 1957

Place of Birth: Tehran

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## × **ACADEMIC QUALIFICATION:**

- Ph.D. in Agricultural Engineering major in Post-harvest Technology, University of Saskatchewan, Saskatoon, Saskatchewan, CANADA (1997)
- Master of Science major in Agricultural Engineering in the field of Power and Machinery, University of Tarbiat Modares, Tehran, IRAN. (1986)
- Bachelor of Science in Agricultural Engineering, Shiraz University, Shiraz, IRAN. (1982)

## × **REFeree FOR JOURNAL ARTICLES:**

- 1) Agricultural Engineering International: the CIGR Ejournal.
- 2) Iranian Journal of Agricultural Sciences, Tehran University
- 3) Journal of Science and Technology of Agriculture and Natural Resources, Isfahan University of Technology
- 4) Journal of Agricultural Science and Technology, Tarbiat Modares University
- 5) Journal of Agricultural Engineering Research, Ministry of Agricultural Jihad
- 6) Journal of Agricultural Sciences, Islamic Azad University
- 7) Journal of Agricultural Sciences and Natural Resources, Gorgan University of Agricultural Sciences and Natural Resources
- 8) Iranian Journal of Food Science and Technology, Tarbiat Modares University
- 9) Journal of Agriculture, Tehran University
- 10) Pajouhesh-va-Sazandegi in Horticulture and Agronomy, Ministry of Agricultural Jihad
- 11) The Scientific Journal of Agriculture, Shahid Chamran University

## × **RESEARCH INTERESTS**

- Physical Properties of Agricultural Materials
- Drying of Agricultural Products
- Post-harvest Technology
- Design of Agricultural Machinery

## × **PROFESSIONAL EXPERIENCE:**

- Associate Professor and Head of Agricultural Machinery Engineering Dept., College of Agriculture, University of Tarbiat Modares (2006- present)
- Assistant Professor of Agricultural Machinery Engineering Dept., College of Agriculture, University of Tarbiat Modares (1997- 2005)
- Head of Agricultural Machinery Engineering Dept., College of Agriculture, University of Tarbiat Modares (1997- 2004)
- Advisor to the Scholarships Administration, Ministry of Science, Research and Technology

(2000- 2003)

- Faculty Member of Agricultural Machinery Engineering Dept., College of Agriculture, University of Tarbiat Modares (1991- 1997)
- Research Associate of Agricultural Machinery Department, Iranian Research Organisation for Science and Technology (IROST), Tehran, Iran (1991-1987)
- Research Assistant of Mechanical Engineering Dept., Research Institute of Jahad Sharif University of Technology, Tehran, Iran

## × **MEMBERSHIP OF PROFESSIONAL ASSOCIATION:**

- Iranian Society of Agricultural Engineering and Mechanization
- The International Commission of Agricultural Engineering (CIGR)
- Agricultural and Natural Resources Engineering Regulation of Iran

## × **RESEARCH EXPERIENCE:**

### § **Research Theses Supervised**

#### **a)Ph.D.**

- 1) Investigation of Vibration Effect on Performance of Fluidized Bed Dryers for Drying Tea (2004)
- 2) Design, Development and Evaluation of Cereal Straw Urea Treatment Machine (2006).
- 3) Intelligent Prediction of Paddy Drying for Process Optimization (2006).
- 4) Grading of Agricultural Products Based on Volume or Density Using Machine Vision (2007)

#### **b) M.Sc.**

- 1) The Effect of Dryer Parameters on Quality and Fissures of Rough Rice (1998).
- 2) Design, Development and Investigation of Optimized System for Rice Polishing (1999)
- 3) Design and Development of Wind Tunnel for Measurement of Aerodynamic Properties of Agricultural Material (2000).
- 4) Design and Fabrication of a Laboratory Fluidized Bed Dryer for Grain Products (2001).
- 5) Design and Development of Cutting System for Harvesting Machine of Sweet Sorghum (2001)
- 6) Design and Development of Online Acoustic Grain Moisture (2002)
- 7) Design and Development of Roller Head for Harvesting Dry Chickpea (2002).
- 8) Design and Development of Gas Pycnometer for Measuring Volume of Agricultural Products (2003)
- 9) Ballast Evaluation of ITM285 Tractor with a Cabin (2003)
- 10) Modification of Gas Pycnometer and Measuring the Volume of Powdery Material and

Interior Pores of Agricultural Products (2004)

- 11) Effect of Temperature and Moisture Content on Mechanical Properties of Soybean Seed (2004)
- 12) Development of Experimental Infrared Radiation Dryer for paddy Drying (2004)
- 13) Effect of Soaking and Drying on Compression Behavior and Dehulling Index in Black Gram Splitting (2005)
- 14) Optimization of Lime Juice Extraction Process (2006)
- 15) Physical and Mechanical Properties of Unsplit Pistachio Nuts for Splitting (2007)
- 16) Effects of Combined Convection and Infrared Methods on Thin Layer Drying of Mushroom (2009)
- 17) Design, Construction and Evaluation of Wind Tunnel with Ambient Simulation (2009)

## § Research Projects Handled:

- “Design and Fabrication of Vibrofluidized Bed Dryer”, Agricultural Machinery Engineering Dept., College of Agriculture, University of Tarbiat Modares, Tehran, Iran (2004).
- “Design, Construction, and Evaluation of Push Type Rice Weeder”. Iranian Research Organisation for Science and Technology (IROST), Tehran, Iran (1991).

## § Research Projects Contribution:

- Loss Reduction and Energy Conservation in Paddy Drying Process- Sponsored by the National Scientific Research Council (2001).
- “Research and Testing Centre of Agricultural Machineries”. Iranian Research Organisation for Science and Technology (IROST), Tehran, Iran (1991).
- “Design and Fabrication of Tractor Flaming”. Iranian Research Organisation for Science and Technology (IROST), Tehran, Iran (1990).
- “Design and Fabrication of Forage Dryer”. Iranian Research Organisation for Science and Technology (IROST), Tehran, Iran (1988).

## × COURSES TAUGHT:

- Physical Properties of Agricultural Products
- Numerical Methods
- Computer Programming
- Heat Transfer
- Post-harvest Technology
- Engineering Experimental Design & Analysis

## × THESIS/PAPERS/RESEARCH REPORT WRITTEN:

### § Thesis:

- *Khoshtaghaza, M. H.* 1997. “Hydrothermal Characteristics and Quality of Alfalfa Cubes

During Transport”. Ph.D. Thesis, University of Saskatchewan, Saskatoon, Canada.

**Khoshtaghaza, M. H.** 1987. “Design of Furrow Attachment for Grain Drills”. M.Sc. Thesis, Tarbiat Modares University, Tehran, Iran.

## § Research Paper Publications:

### a) English Paper

1) Amiri Chayjan R., G.A. Montazer, T. Tavakoli, **M.H. Khoshtaghaza** and B. Ghobadian. 2007. Prediction of Pistachio Thermal Conductivity Using Artificial Neural Network Approach. *International Journal of Agriculture & Biology*. 9(6):816-820.

2) Minaei S., M.R. Alizadeh, **M.H. Khoshtaghaza** and T. Tavakoli. 2007. Effects of De-Awing and moisture content on husking characteristics of paddy in rubber-roll husker. *American Eurasian J. Agric. & Environ. Sci*. 2(1): 1-5

3) **Khoshtaghaza M. H.** and R. Amiri Chayjan. 2007. Effect of some physical properties on fluidisation stability of grain products. *Biosystems Engineering*. 98: 192-197.

4) Alizadeh M.R., S. Minaei, T. Tavakoli, and **M.H. Khoshtaghaza**. 2006. Effect of De-Awing on Physical Properties of Paddy. *Pakistan Journal of Biological Sciences*. 9(9): 1726-1731.

5) Zare D., S. Minaei, M. Mohamadzadeh and **M.H. Khoshtaghaza**. 2006. Computer simulation of rough rice drying in a batch dryer. *Energy Conversion and Management*. 47: 3241-3254.

6) Amoodeh M.T., **M. H. Khoshtaghaza** and S. Minaei. 2006. Acoustic on-line grain moisture meter. *Computers and Electronics in Agriculture*. 52: 71-78.

7) **Khoshtaghaza M. H.** and R. Mehdizadeh. 2006. Aerodynamic properties of wheat and straw materials. *Agricultural Engineering International: the CIGR Ejournal*. FP 05 007. Vol. VIII.

8) Sokhansanj, S., , **M. H. Khoshtaghaza**, G.J. Schoenau, E. A. Arinze, and L.G. Tabil. 2003. Heat and moisture transfer and quality changes in containerized alfalfa cubes during transport. *Transaction of the ASAE*. 46(2): 423-432.

9) Tabil, L.G., S. Sokhansanj, W.J. Crerar, R. T. Patil, **M. H. Khoshtaghaza** and A. Opoku. 2002. Physical characterization of alfalfa cubes: 1. Hardness. *Canadian Biosystems Engineering*. 44(3): 55- 63

10) Sinha, S., S. Sokhansanj, W.J. Crerar, W. Yang, L.G. Tabil, **M.H. Khoshtaghaza**, and R.T. Patil. 2000. Mechanical dewatering of chopped alfalfa using an experimental piston-cylinder assembly. *Canadian Agricultural Engineering*. 42(3): 153-156.

11) **Khoshtaghaza M. H.**, S. Sokhansanj and B.D. Gossen. 1999. Quality of Alfalfa Cubes During Shipping And Storage. *Applied Engineering in Agriculture*. 15(6): 671-676.

12) Patil, R. T., S. Sokhansanj, **M. H. Khoshtaghaza**, and L.G. Tabil. 1996. Compression characteristics of alfalfa cubes. *Canadian Agricultural Engineering*. 38(3):195-200.

13) **Khoshtaghaza M. H.**, S. Sokhansanj and R.J. Ford. 1995. Thermal diffusivity and thermal conductivity of alfalfa cube. *Canadian Agricultural Engineering*. 37(4):321-325.

### b) Farsi Paper (with English abstract)

1) Amiri Chayjan R., **M.H. Khoshtaghaza**, G.A. Montazer, S. Minaee and M.R. Alizadeh. 2009. Estimation of head rice yield using artificial neural networks for fluidized bed drying of rough rice. *Journal of Science and Technology of Agriculture and Natural Resources*.

48(13) 285-299.

- 2) Alemi H., **M. H. Khoshtaghaza**. and S. Minaee. 2009. Mechanical properties determination of soybean seed by quasi-static loading. *Journal of Food Science and Technology*.
- 3) Younesi Alamoti M., **M. H. Khoshtaghaza**. and B. Ghobadian. 2008. Study of effective parameters on wheat straw moisture absorption. *Journal of Iranian Biosystem Engineering*.
- 4) Minaee S., B. Jamshidi, S. Sarami and **M. H. Khoshtaghaza**. 2008. Design and development of optoelectric machine for fruits separation based on colour. *Journal of Iranian Biosystem Engineering*.
- 5) Behroozi Khazaei N., R. Amiri Chayjan, T. Tavakoli-Hashjin and **M. H. Khoshtaghaza**. 2007. Investigation on important drying indices of grape in hot air flow by using artificial neural networks. 7 (3): 141-154.
- 6) Younesi Alamoti M., **M. H. Khoshtaghaza**. and B. Ghobadian. 2006. Wheat straw moisture characteristics at different bulk densities and water flow rates by conic type sprinkler nozzle. *Journal of Agricultural Engineering Research*. 7(27):87-102.
- 7) Roustapour O.R., B. Ghobadian, **M. H. Khoshtaghaza**. and GH. Fakhrpour. 2005. A determination of thermophysical properties of lime juice. *Iranian Journal of Agricultural Sciences*. 36(4): 833-848.
- 8) Jamshidi B., S. Minaee and **M. H. Khoshtaghaza**. 2005. Effects of fruit and machine parameters on accuracy of an automatic tomato color sorting system. *The Scientific Journal of Agriculture*. 28(1): 1-12.
- 9) Sadeghi A., T. Tavaloki-Hashjin and **M. H. Khoshtaghaza**. 2005. An investigation on the temperature history of unhulled pistachio nuts prior to processing and its effects on the shell staining. *Iranian Journal of Food Science and Technology*. 2(2): 51-61.
- 10) Amiri Chayjan R. , **M. H. Khoshtaghaza** and M.H. Kianmehr. 2004. Design principles of experimental fluidized bed dryer for some agricultural products. *Journal of Agricultural Engineering Research*. 5(20): 35-52.
- 11) Sadeghi M. , **M. H. Khoshtaghaza** and A.A. Khayat. 2004. Principles of designing and fabricating of a laboratory vibro-fluidized bed dryer to study of moist material fluidization. *Amirkabir Journal of Science & Technology*. 15(58): 385-397.
- 12) Amiri Chayjan R. , **M. H. Khoshtaghaza**. 2004. Comparison of kernel fissuring and drying of rough rice in experimental fixed and fluidized bed conditions. *Journal of Science and Technology of Agriculture and Natural Resources*. 7 (4): 246-259.
- 13) Tavakoli-Hashjin, T., S. Rafee and **M. H. Khoshtaghaza**. 2003. Rough rice kernel temperature simulation during drying by using finite element method. *Agricultural Science*. 13 (2): 1-12.
- 14) Mehdizadeh R. **M. H. Khoshtaghaza** and M. Pasandidehfar. 2003. Design and development of a vertical wind tunnel for measurement of aerodynamic properties of small material. *Amirkabir Journal of Science & Technology*. 14(53): 13-25.
- 15) Akbarnia, A., **M. H. Khoshtaghaza**, Sharifi, J. and Araghi, M.K. 2002. Design, fabrication and evaluation of wood-chipper machine. *Pajouhesh-va-Sazandegi Journal in Horticulture and Agronomy*. 15(2): 2-8.
- 16) **Khoshtaghaza M. H.**, M. Soleymani and M. Shahedi. 2002. Correlation of head Rice yeild (HRY) with rough rice fissuring and bending strength in drying process. *Iranian Journal of Agricultural Sciences*. 33(1): 115-121.
- 17) **Khoshtaghaza M. H.** , M. H. Heydary and T. Tavaloky. 2002. Study of blade and feed rate effects on rice quality in friction-type whitening machine. *The Scientific Journal of Agriculture*. 24(2): 19-34.

- 18) Soleymani, M., **M. H. Khoshtaghaza** and S. A. Modares. 2001. The effect of dryer parameters on seed rice germinative ability. *Journal of Agricultural Engineering Research*. 2(8): 13-24.
- 19) Kianmehr M.H., T. Tavaloky and **M. H. Khoshtaghaza**. 2001. To investigate the temperature effects and air direction on the moisture variance and time necessary for paddy drying in batch dryers. *Journal of Agricultural Sciences*. 7 (1): 17-30.
- 20) **Khoshtaghaza M. H.** and M. Soleymani. 2000. Effects of drying parameters on rice fissuring. *Journal of Agricultural Sciences*. 5 (20): 49-62.

## § Conference Papers (A Sample of):

- 1) Movahedinejad M.H., **M. H. Khoshtaghaza**, S. Abbasi. 2006. Effect of some physical parameters on the lime juice efficiency as well as electrical power consumption of screw type extraction. XVI CIGR World Congress: Agricultural Engineering for Better World. Bonn, Germany.
- 2) Minaei S., D. Zare and **M. H. Khoshtaghaza**. 2006. Development of computer simulation software for drying of paddy in a deep-bed batch dryer. XVI CIGR World Congress: Agricultural Engineering for Better World. Bonn, Germany.
- 3) **Khoshtaghaza M. H.** and R. Amiri Chayjan. 2005. Effect of some physical properties of agricultural grain products on fluidization behaviour. International Congress on Information technology in Agriculture, Food & Environment (ITAFE' 05). Cukurova University, Adana, Turkey.
- 4) Amiri Chayjan, R., Montazer, A., Tavakoly Hashjin, T. **M. H. Khoshtaghaza.**, and B. Ghobadian. 2005. Intelligent prediction of pistachio thermal conductivity using Artificial Neural Network approach. International Congress on Information technology in Agriculture, Food & Environment (ITAFE' 05). Cukurova University, Adana, Turkey.
- 5) Beheshti, B., **M. H. Khoshtaghaza.**, A. Bassiri and S. Minaei. 2005. Selection of a suitable thin layer drying model for almond. IV International Symposium on Pistachio and Almond. Tehran, Iran.
- 6) Amiri Chayjan R., and **M. H. Khoshtaghaza**. 2005. Study of some physical properties of seed products on fluidised stability. 9<sup>th</sup> International and 13<sup>th</sup> Annual Mechanical Engineering Conference, Esfahan, Iran.
- 7) Montazer, A., R. Amiri Chayjan , Tavakoly-Hashjin, T. and **M. H. Khoshtaghaza**. 2005. Intelligent prediction of pistachio thermal conductivity using Artificial Neural Network approach. 9<sup>th</sup> International and 13<sup>th</sup> Annual Mechanical Engineering Conference, Esfahan, Iran.
- 8) Sadeghi M. , **M. H. Khoshtaghaza** and M.A. Sahary. 2004. Vibration effect on tea quality in vibro-fluidized bed dryer. 15<sup>th</sup> National Congress of Food Industry. Tehran, Iran.
- 9) Rahnama, A., and **M. H. Khoshtaghaza**. 2004. Design and fabrication of gas pycnometer for measuring volume of agricultural material. Third National Conference on Agricultural Machinery and Mechanization. Kerman, Iran.
- 10) Amiri Chayjan R., and **M. H. Khoshtaghaza**. 2004. Rough rice drying uniformity and losses in fixed, minimum and full fluidized bed dryer conditions. Third National

Conference on Agricultural Machinery and Mechanization. Kerman, Iran.

- 11) Sadeghi M. , **M. H. Khoshtaghaza** and S. Minaee. 2004. Study of vibration effects on particle bed aerodynamics and thermal performance in vibro-fluidized bed dryers. Third National Conference on Agricultural Machinery and Mechanization. Kerman, Iran.
- 12) Minaee, S., A.H. Afkari Sayah, and **M. H. Khoshtaghaza**. 2004. Design, fabrication and evaluation of impact force machine for study of mechanical characteristic of agricultural material. Third National Conference on Agricultural Machinery and Mechanization. Kerman, Iran.
- 13) **Khoshtaghaza M. H.**, and M. Sadegi. 2003. Designing and fabricating of a laboratory vibro-fluidized bed dryer. 6<sup>th</sup> Iranian Manufacturing Engineering Conference, Tehran, Iran.
- 14) Heydary, M.H., and **M. H. Khoshtaghaza**. 2003. Study of blade and time of polishing effects on rice quality in friction-type whitening machine. First National Symposium on Losses of Agricultural Products, Tehran, Iran.
- 15) Minaee, S., **M. H. Khoshtaghaza** and A.H. Afkari Sayah. 2003. Wheat kernel elastic models for determination of kernel quality. First National Symposium on Losses of Agricultural Products, Tehran, Iran.
- 16) Amiri Chayjan R. ,and **M. H. Khoshtaghaza**. 2002. Study of fluidization characteristic of seed products. 2<sup>th</sup> National Congress of Agricultural Eng. and Mechanization, Karaj, Iran.
- 17) **Khoshtaghaza M. H.**, R. Mehdizadeh. 2002. Determination of moisture and mass effect on aerodynamic property of wheat kernel. 2<sup>th</sup> National Congress of Agricultural Eng. and Mechanization, Karaj, Iran.
- 18) Sadeghi M. , **M. H. Khoshtaghaza** and R. Amiri Chayjan. 2002. Evaluation of thermal efficiency of rough rice drying process in fixed, semi and full fluidized conditions. 2<sup>th</sup> National Congress of Agricultural Eng. and Mechanization, Karaj, Iran.
- 19) **Khoshtaghaza M. H.**, and R. Mehdizadeh. 2002. Determination of aerodynamic properties of wheat kernel and straw materials. Proc. AgEng2002 Conference, Budapest, Hungary.
- 20) Tavakoli-Hashjin, T. , M.H. Payman, M.H. Alizadeh, and **M. H. Khoshtaghaza**. 2002. Effect of moisture content and linear speed difference on paddy dehulling quality. Proc. AgEng2002 Conference, Budapest, Hungary
- 21) Amiri Chayjan R. , **M. H. Khoshtaghaza**, T. Tavakoly, and H. Kianmehr. 2001. Design, fabrication and evaluation of experimental fluidised bed dryer for seed products. 5<sup>th</sup> International and 9<sup>th</sup> Annual Mechanical Engineering Conference, Rasht, Iran.
- 22) **Khoshtaghaza M. H.** and M. H. Heydary. 2001. Design and fabrication of frictional rice whitener machine. 5<sup>th</sup> International and 9<sup>th</sup> Annual Mechanical Engineering Conference, Rasht, Iran.
- 23) Mehdizadeh R. **M. H. Khoshtaghaza** and M. Pasandidehfar. 2001. Design and development of wind tunnel for measuring aerodynamic properties of grain seeds. 5<sup>th</sup> International and 9<sup>th</sup> Annual Mechanical Engineering Conference. Rasht, Iran
- 24) Soleymani. M. and **M. H. Khoshtaghaza**. 2000. Seed germination power control of rice in drying process. 6<sup>th</sup> Iranian Crop Science and Plant Breeding Congress. Mazandaran University, Babolsar, Iran.
- 25) Akbarnia A., **M. H. Khoshtaghaza** and J. Sharifi. 2000. Design, fabrication and evaluation of a wood chipper machine for wood remains after trimming trees. The Second Iranian Horticultural Science Congress, Karaj, Iran.
- 26) **Khoshtaghaza M. H.** 2000. Predict of alfalfa cube quality in variable condition of temperature and humidity. The Second Iranian Seminar of Animal Nutrition, Tehran, Iran.
- 27) Heydary M.V. and **M. H. Khoshtaghaza**. 1999. Design and development of rice whitener



with minimum losses. 7<sup>th</sup> of Iranian Rice Congress, Karaj, Iran.

- 28) **Khoshtaghaza M. H.** and M. Soleymani. 1999. Study of Head Rice Yield during drying process. 7<sup>th</sup> of Iranian Rice Congress, Karaj, Iran.
- 29) **Khoshtaghaza M. H.**, S. Sokhansanj and W. Crerar. 1996. Development of storage index to predict quality of alfalfa cubes in storage and in transit. CSAE Paper No. 96-306. Saskatoon, SK: Canadian Society of Agricultural Engineering.
- 30) Tabil, L.G., W.J. Crerar, **M.H. Khoshtaghaza** and S. Sokhansanj. 1996. Enhancement of Physical Quality of Alfalfa Cubes by the Use of Binders. Man-Sask 96-113. Saskatoon, SK: Canadian Society of Agricultural Engineering.
- 31) **Khoshtaghaza M. H.**, S. Sokhansanj, B. Gossen, R. T. Patil, and D. A. Pulkinen. 1995. Quality of alfalfa cube during storage. ASAE Paper No. 95-6632. St. Joseph, MI. American Society of Agricultural Engineers.
- 32) Patil, R.T., L. Tabil, W. Yang, E. Arinze, W. Crerar, D. Pshyk, T. Larsen **and M. H Khoshtaghaza**. 1994. Alfalfa Processing - Handling and Storage: Research and Development Update. 15th Annual Conference and Trade Show of the Canadian Dehydrators Association, Saskatoon, SK, Canada.
- 33) Sokhansanj, S., R.T. Patil, L.G. Tabil, Jr., W. Yang, E.A. Arinze, W.J. Crerar, D.S. Pshyk, T.B. Larsen and **M.H. Khoshtaghaza**. 1994. Effect of Process Conditions on Quality Changes in Alfalfa and its Products. Recent Advances in Alfalfa Harvesting, Processing and Handling Technical Conference, Saskatoon, SK, Canada.

## § Technical Report:

- **Khoshtaghaza M. H.**, M. Sadeghi, A.A. Khayat, T. Tavakoli-Hashjin and S. Minaee. 2004. Design and fabrication of vibro-fluidized bed dryer. Agricultural Machinery Engineering Dept., University of Tarbiat Modares, Tehran, Iran.
- Sokhansanj S., **M. H. Khoshtaghaza**, W. J. Crerar, E.Z Jan, A. MacNeil, and A. Penner. 1996. Moisture migration in containerized alfalfa cubes during overseas shipment. Department of Agriculture and Bioresource Engineering, University of Saskatchewan, Saskatoon, Saskatchewan, Canada S7N 5A9.
- **Khoshtaghaza M. H.** 1991. Design, construction, and evaluation of push type rice weeder. Iranian Research Organisation for Science and Technology (IROST), Tehran, Iran.

## × AWARDS:

- *Graduate Scholarship Award*, Ministry of Culture and Higher Education of Iran, to pursue Ph.D. in Agricultural Engineering at the University of Saskatchewan. (1992)
- *Graduate Thesis Award*, The Canadian Society for Engineering in Agricultural, Food and Biological Systems for Ph.D. thesis entitled “Hydrothermal Characteristics and Quality of Alfalfa Cubes During Transport (1998)