

RESUME

PERSONAL

Name : Ali Faezian
Date of Birth : Dec. 22, 1963
Marital Status : Married with three children

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EDUCATION

Ph.D. : Mechanical Engineering Department, Faculty of
Engineering, Ferdowsi University of Mashhad, Mashhad,
Iran.
**2004, Thesis “One Dimensional Simulation of Unsteady Compressible
Flow in the Intake and Exhaust Systems of Internal Combustion Engine”**

M.Sc. : Faculty of Mechanical Engineering, Isfahan University
of Technology, Isfahan, Iran, 1989.
Thesis: “**Experimental Investigation of Overall Heat
Transfer Coefficient of the Refrigerator Evaporator**”

B.Sc. : Mechanical Engineering Department, Faculty of
Engineering, Ferdowsi University of Mashhad,
Mashhad, Iran, 1987.

ACADEMIC STATUS

2004 – present : Assistant Professor, Food Machinery Design Department,
Research Institute of Food Science and Technology,
Mashhad, Mashhad, Iran.

- 2001 – 2002 : Visiting Scholar, Polytechnic of Milan, Milan, Italy,
- 1991 – 1997 : Academic Staff, Khorasan Institute (Center), Iranian Research Organization of Science and Technology (IROST), Mashhad, Iran.
- 1989 – 1991 : Research Staff, Engineering Research Center of Jihad Khorasan, Mashhad, Iran.

EXECUTIVE POSITION

- 2008 – present : the member of promotion committee of Research Institute of Food Science and Technology
- 2012 – 2012 : The member of executive committee of the 5th Annual Conference of National Vacuum, Mars 2012, Mashhad, Iran
- 2006 – present : Foundation of The Knowledge base Company, Sanat Projeh Toos (SPT), & Head of Its' Board Director
- 2004 – 2008 : The Chairman of Mechanical Engineering Department, Research and Developing Institute.
- 2004 – 2008 : The member of board of directors of the Khorasan Province of Iranian Society of Mechanical Engineers
- 1985 – 1987 : The Chairman of Mechanical Engineering Department Khorasan Institute (Center), Iranian Research Organization of Science and Technology (IROST), Mashhad, Iran.

TEACHING EXPERIENCE

Mechanical Engineering Department, Faculty of Engineering, Ferdowsi University of Mashhad (Mashhad, Iran), Mechanical Engineering Department, Hakim Sabzevari University (sabzevar, Iran) & Institute of Food Science and Technology (Mashhad, Iran)

- 1) Projects 13 cases 2009-present (Graduate)
- 2) Heat and Mass Transfer Modeling in Food Engineering 3 semesters 2015-2013 (Postgraduate)
- 3) Advanced Engineering Mathematic (Graduate) 2 semesters 2011-2012
- 4) Conduction Heat Transfer (Graduate) 1 semester 2011
- 5) Thermodynamics I 2 semesters_1997-1998

- 6) Fluid mechanic I 1semester 1999
- 7) Heat transfer 1 semester 2000
- 8) Thermodynamic Lab. 1 semester 1999
- 9) Heat transfer Lab 1 semester 2000

Hashemi_njad High Education Center (Mashhad)

- 10) Physic I & II (Mechanic & Heat) 4 semesters 1979-1981

& Khorasan Exhaust Company (Produce exhaust system of automobile)

- 12) Acoustic Workshop (24 hours) Feb. 2005

RESEARCH PROJECTS

- 1) Designing and Manufacturing of Chocolate Rolling Mill Micronized Plant, Sponsored by Institute of Food Science and Technology, Current Project.
- 2) Codification of Standard and Design Procedure for Gas Pressure Reduction Stations based on Acoustic Considerations, 2015, Sponsored by Khorasan_Razavi Gas company.
- 3) To Produce (Write) a Software for Producing Process System of a Food-Applied it for a Milk Sterilization System, 2014, Sponsored by Institute of Food Science and Technology & Sanat Projeh Toos company.
- 4) Designing and Manufacturing of Silencer for the Six TBS Stations of Natural Gas Pressure Reducing, 2014, Sponsored by Khorasan_Razavi Gas company.
- 5) Establish Acoustic Lab (Impedance Tube & Flow Noise Test Section), 2012, Khorasan Science and Technology Park.
- 6) Fusibility Study of Food Industrial Pilot Foundation, 2011, Sponsored by Institute of Food Science and Technology.
- 7) Studying, designing and manufacturing of silencers for noise reducing of regulating station, 2011, Sponsored by Khorasan_Razavi Gas company.
- 8) Designing and Manufacturing of Milk Sterilization System by Direct Steam Injection in Lab Scale, 2011, Sponsored by Institute of Food Science and Technology.
- 9) Designing and Manufacturing of Adsorption Chiller with 100W Capacity, 2010, Sponsored by Institute of Food Science and Technology & Tahviah Marve Khorasan Co..
- 10) Fusibility Study for Food Science Institutes Developing, 2010, Sponsored by Institute of Food Science and Technology.

- 11) Developing of Silencer Simulation Code (SILE), 2009, Sponsored by Khorasan Science and Technology Park.
- 12) Writing a Code for Shell & Tube Heat Exchanger Designing, 2005, Sponsored by Khorasan Science and Technology Park.
- 13) To Use the Electroless Nickel Coatings and Microstructure Changing to improve the corrosion resistance of AISI 420 stainless steels, 2007, Sponsored by Samen Drug Manufacturer Co.
- 14) SI Engine Intake and Exhaust Manifolds Design: Based on Acoustic and Efficiency, 2008, Sponsored by Khorasan Science and Technology Park.
- 15) Investigation of Surrounding Temperature Effect on the Steam Consumption of the 5 RT Steam Jet Chiller, 2004, Sponsored by Khorasan Science and Technology Park.
- 16) Designing and Manufacturing of Lab Scale Concentrator with Falling Film Evaporator, 1987, Sponsored by Khorasan Institute (Center), Iranian Research Organization of Science and Technology (IROST).
- 17) Designing and Manufacturing of Test Room (Hot Room), 1982, Sponsored by Khorasan Institute (Center), Iranian Research Organization of Science and Technology (IROST).
- 18) Investigation and Selection of Manufacturing Technology of Home Refrigerator Evaporator, 1982, Sponsored by Khorasan Institute (Center), Iranian Research Organization of Science and Technology (IROST).
- 19) Designing of Reheat Distillater, 1980, Sponsored by Engineering Research Center of Jihad Khorasan.
- 20) Investigation of a Marine Vehicle Dynamics, 1979, Sponsored by Engineering Research Center of Jihad Isfahan.
- 21) Controller of 9 projects, 1986-present.
- 22) Coworker in 6 projects, 1986-present

TECHNOLOGICAL PROJECTS

- 1) Documentation for Knowledge base Company, 2015, Confirmed by Scientific and Technological Department of Presidential Office, Sponsored by Sanat Projeh Toos (SPT) Company.

- 2) Documentation for Accepting in Vendor List of National Gas Company of Iran, 2015, Confirmed by The National Iranian Gas Company, Sponsored by Sanat Projeh Toos (SPT) Company.

AWARDS

- 1) Technologist, Chosen as a distinguished Technologist, third Rank, ___Khorasan State, Mashhad, Jan. 2015.
- 2) Technological Project, Chosen as a distinguished project “Designing and Manufacturing of Silencer for the Six Stations of Natural Gas Pressure Reducing”: Fourth National Festival & Exhibition of ELM TA AMAL, Tehran, November 2014.
- 3) Business plan Project, Chosen as a distinguished BP Project “Designing and Manufacturing of Silencer for the Stations of Natural Gas Pressure Reducing”: third Rank, Fourth Festival of East Zone of Iran, Mashhad, Jan. 2015.
- 4) PhD Project, Chosen as a distinguished PhD project (Butane Prize) : Iranian Society of Mechanical Engineering, ISME2005, Esfahan, May 2005.
- 5) PhD Project, Chosen as a distinguished PhD project in 5th Ferdowsi Festival, Mashhad, Dec. 2005.

PUBLICATIONS

A) Papers (Journals) :

- 1) Alehosseini, A., Rafe, A., Faezian, A., Alehosseini, E., Study of the effective diffusion coefficient, activation energy, and modeling humidification kinetic of pea garden, Volume 13, Kongore 94 (2015), Autoumn 2015.
- 2) Shahraki, M. H., Maskooki, A., Faezian, A. & Ali Rafe: Flux improvement of ultrafiltration membranes using ultrasound and gas bubbling, Journal of Desalination and Water Treatment, accepted, 25 Jan 2016.
- 3) Shahraki, M. H., Maskooki, A., Faezian, A.: Hollow fibers Filtration and Cleaning Processes under ultrasound and gas bubbling Combination, Journal of Food Process Engineering, accepted, Nov 2015.

- 4) Shahraki, M. H., Maskooki, A., Faezian, A.: Effect of Soluble and Insoluble Gas Bubbling Methods on Ultrafiltration Fouling Control, Journal of Desalination and Water Treatment, accepted, Nov 2015.
- 5) Shahraki, M. H., Maskooki, A., Faezian, A.: Effect of Various Sonication Modes on Permeation Flux in Cross Flow Ultrafiltration Membrane, Journal of Environmental Chemical Engineering 2 (2014), pp 2289-2294, www.elsevier.com/locate/jece.
- 6) Faezian, A., Modarres-Razavi, M.R. & Omidvar, A. : Reaction (Mechanical) Silencer Are Used for Noise Reducing in the Natural Gas Pressure Regulation station, Iranian Journal of Mechanical Engineering, Transaction of ISME, Vol. 15 , No. 2, Winter 2014.
- 7) Faezian, A. & Modarres-Razavi, M.R. : Analysis of Unsteady Compressible Flow in the Shock-Tube Filled with Porous Material, Journal of Iran University of Science & Technology, Vol. 17, No. 3, 2006.
- 8) Faezian, A., Modarres-Razavi, M.R. & Onorati, A. : N-Junction Modeling in Perforate Silencer of Internal Combustion Engine, Iranica-Scientia Journal, (Sharif U.), Vol. 12, No 4, Oct. 2005.
- 9) Faezian, A., Modarres-Razavi, M.R. & Onorati, A. : Silencer Design In Inlet and Exhaust of Internal Combustion Engines, Journal of Engine Research, Vol. 2, No. 5, 2005.
- 10) Faezian, A., Modarres-Razavi, M.R. & Onorati, A. : Numerical Investigation of Parameters Effects on Silencer Performance in Internal Combustion Engines, Iranian Journal of Mechanical Engineering, Transaction of ISME, Vol. 6 , No. 1, Nov. 2004.
- 11) Faezian, A., Modarres-Razavi, M.R. & Onorati, A. : Modeling of T- Junction and Upstream Excitation in Internal Combustion Engine Silencers, Journal of Faculty Engineering, Ferdowsi University of Mashhad, Vol. 11, No. 1, 2004.
- 12) Faezian, A., Modarres-Razavi, M.R. & Onorati, A. : Modeling of Exhaust System Silencers in Internal Combustion Engines, Amirkabir Journal of Science & Technology, Amirkabir University of Technology, Vol. 15 No. 58-B, (mechanical Engineering) Spring 2004.
- 13) Faezian, A.: Calculation of Overall Heat Transfer Coefficient of Refrigerator Evaporator by Experimental Method, Journal of Research in Science and Technology, Iranian Research Organization of Science and Technology (IROST), Vol. 11 No 24, 1993.

B) Papers (Conferences) :

- 1) Alehosseini, A., Rafe, A., Faezian, A., Alehosseini, E., Study of the effective diffusion coefficient, activation energy, and modeling humidification kinetic of pea garden, 23 ncfsc, Nov. 2015.
- 2) Hashemi Sh., M., Maskooki, Ab., Faezian, A.: Effect of Low Frequencies of Ultrasound on Fouling Control of Milk Ultrafiltration, 12th International Conference on Membrane Science and Technology (MST2015), 1-3 November 2015.
- 3) Hashemi Sh., M., Maskooki, Ab., Faezian, A.: Effect of Various Gas Bubbling Methods on Flux Enhancement in Cherry Concentrate Ultrafiltration, 12th International Conference on Membrane Science and Technology (MST2015), 1-3 November 2015.
- 4) Esmaeeli, A., Faezian, A., Pasandideh-Fard, M. & Faezian, V. : Experimental Investigation on Vapor Bulk length in Direct Injection in the Milk Sterilization System , 22th Annual Conference of ISME, Chamran University of Ahvaz, Ahvaz, May 2014.
- 5) Yazdanpanah, H., Farshidianfar, A., Faezian, A. & Mokhtari, F. : Capturing the Shock Point in Steam Ejector by Intensity Prop, 3th Acoustic and Vibration Conference, Toosi University of Technology, Dec. 2013.
- 6) Reyhani, A. R., Faezian, A., Aligodarz, M. R. & Modarres Razavi, M.R. : Comparison of Theoretical and Experimental Results of Transmission Loss for Expansion Chamber, First National Conference of Air and Sound Pollution Management (AQM 2012), Dec. 2012.
- 7) Reyhani, A. R., Faezian, A., Aligodarz, M. R. & Modarres Razavi, M.R. : Measuring the Acoustic Parameters of Expansion Chamber in the Two Load and Non Flow Condition, First National Conference of Air and Sound Pollution Management (AQM 2012), Dec. 2012.
- 8) Aligodarz, M. R., Reyhani, A. R., Faezian, A & Modarres Razavi, M.R. : Measuring the Acoustic Parameters of Expansion Chamber in the Non Flow Condition, International Conference of Mechanical Engineering & Advanced technologies (ICMEAT2012), Isfahan, Oct. 2012.
- 9) Mahdavi Khah, M., Niazmand, H. & Faezian, A. : Numerical Study of Bed Characteristics for Obtaining Optimized Size of Adsorptive Particles in the Adsorption Chiller, 20th Annual Conference of ISME, Shiraz University, Shiraz, May 2012.
- 10) Faezian, A., Reyhani, A. R., Modarres Razavi, Meshkini, P., Omidvar, A. : Experimental Study of Acoustic Pollution in the Natural Gas Pressure Regulation station , 6th National Conference & Exhibition on Environmental Engineering, Fall 2012.

- 11) Faezian, A., M., Niazmand, H., Abedini, R. & Alavi, Z. : Estimate Flow Rate by an Independent Experimental Approximated Formula from Reynolds Number , 140th Conference of Fluid Dynamics, Birjand University, Birjand, May 2012.
- 12) Rabiee-Gol-Khatmi, S., Faezian, A. & Ahmadi-Brooghani, S. Y. : Investigation on the Manufacturing and Assembling Tolerances of Turbomolecular High Vacuum's Pump – Part 1 The Tolerance Analysis Methods, 5th National Conference of vacuum, Mashhad, Iran, March 2012.
- 13) Rabiee-Gol-Khatmi, S., Faezian, A. & Ahmadi-Brooghani, S. Y. : Investigation on the Manufacturing and Assembling Tolerances of Turbomolecular High Vacuum's Pump – Part 2 Tolerances Prediction for Pump's Parts Assembling on One Direction, 5th National Conference of vacuum, Mashhad, Iran, March 2012.
- 14) Faezian, A., Bayat, Y., Meshkini, P. & Kalani, S. : Investigation of Surrounding Temperature Effect on the Steam Consumption of the Steam Jet Chiller, 19th Annual Conference of ISME, Birjand University, Birjand, May 2011.
- 15) Mahdavi Khah, M., Dobzade, I., Niazmand, H. & Faezian, A. : Experimental and Numerical Study of the Silica jel-Water Adsorption Chiller , 19th Annual Conference of ISME, Birjand University, Birjand, May 2011.
- 16) Bayat, Y., Faezian, A. & Jeyani E., Y. : To Determine the Compressibility Coefficient & Joule - Thomson Coefficient of Natural Gas by AGA8 Method, 19th Annual Conference of ISME, Birjand University, Birjand, May 2011.
- 17) Mahdavi Khah, M., Niazmand, H. & Faezian, A. : Numerical Study of the Inlet Hot Water Temperature on the Silica jel-Water Adsorption Chiller Performance , First Thermal Science Conference of Iran, Azad University of Mashhad, Mashhad, Feb. 2011.
- 18) Mahdavi Khah, M., Niazmand, H. & Faezian, A. : Evaluation of the Uniform Pressure Approximation Applied on the Porous Bed of Adsorption Chiller , First Thermal Science Conference of Iran, Azad University of Mashhad, Mashhad, Feb. 2011.
- 19) Faezian, A., Modarres R., M. R., Omidvar, A. : Experimental Study of Flow Noise in a Gas Ventilation System, 17th Annual Conference of ISME, Tehran University, Tehran, May 2009.
- 20) Omidvar, A., Faezian, A. & Modarres Razavi, M. R. : Transmission Loss Analysis of an Expansion Chamber in Stationary Medium by

Experimental and Numerical Methods”, Proceedings of the 6th International Conference on Internal Combustion Engines, Tehran, Iran, November 17-19, 2009.

- 21) Faezian, A.,
Refrigeration and Vacuum System Design, 18th National Conference on Food Engineering, Research Institute of Food Science & Technology, Mashhad, Oct. 2008.
- 22) Faezian, A., Niazmand, H., Feyzbakhshi, M. & Janmohammadi, M. :
Experimental Analysis and Formulation of Wet Cooling Tower Performance Under Some Ambient Conditions, 16th Annual Conference of ISME, Bahonar University of Kerman, Kerman, May 2008.
- 23) Faezian, A., Behnam N., R. & Amini, A. : *The investigation of electroless Nickel, hard chromium and nitride coatings applied to improve the corrosion resistance of AISI 420 stainless steels*, 10th Annual Conference of Iranian Society of Metallurgy Engineers, Ferdowsi University of Mashhad, Mashhad, Nov. 2006.
- 24) Faezian, A., Modarres-Razavi, M.R.: *Excitation Source Simulation at Upstream Boundary Condition*, 11th Annual Conference of ISME, Ferdowsi University of Mashhad, Mashhad, May 2003.
- 25) Faezian, A., Modarres Razavi, M.R. & Onorati, A. : *Silencer Design in Inlet and Exhaust of Internal Combustion Engines*, Third International Conference in Internal Combustion Engines, Tehran, Feb. 2004.
- 26) Faezian, A. : *Application of Calculus Variation in the Engineering Problems*, First Conference of Optimization, Ferdowsi University of Mashhad, Mashhad, Nov. 1998.
- 27) Faezian, A. & Malekzade, G. R., : *Designing of Concentrator with Falling Film Evaporator* , First Conference of Food Industries, Ferdowsi University of Mashhad, Mashhad, June 1997.
- 28) Faezian, A., : *Marine Vehicle Dynamics*, First Conference of Fluid Dynamics, Kerman University, Kerman, Feb. 1992.

C) Patents

- 1) Subject: Using the Diverge Perforate (Diffuser) Pipe as an Injector into the Heat Treatment System of Food

Inventor: Ali Faezian
Iran Intellectual Properties Office
Scientific Validated
Date: 9 Oct. 2013

2) Subject: *Designing and Manufacturing of Adsorption Chiller* Inventor: Iman
Dibzade, Mthdi Mahdavi_khah, Ali Faezian, Hamid
Niazmand & Mohamad_Reza Soltanian
Iran Intellectual Properties Office
Scientific Validated
Date: 11 Dec. 2012

3) Subject: *Reducing the Gas Pressure Regulating Station Noise by Mechanical Silencer*
Inventor: Mohamad R. Modarres R., Ali Faezian, S. Iman Pishbin &
Amir Omidvar
Iran Intellectual Properties Office
Scientific Validated
Date: 6 Sep. 2011

REFERENCES

Available upon request.

(Date : Aug. 2014)