

## RESUME

2016

### Fereydoun “Fred” Aghazadeh Georgia Gulf Distinguished Professor of Engineering

Department of Mechanical and Industrial Engineering  
3272 G Patrick F. Taylor Hall  
Louisiana State University  
Baton Rouge, LA 70803-6409

Phone : (225) 578-5367  
Cell : (225) 252-8282  
Fax: (225) 578-5804  
E-mail: aghazadeh@lsu.edu

#### I. Education:

Ph.D.	Texas Tech University	May 1983
M.S.I.E.	Texas Tech University	August 1974
B.S.I.E.	Texas Tech University	December 1972

#### II. Areas of interest:

##### Teaching

Ergonomics  
Safety Engineering  
Industrial Hygiene  
Traditional I.E.  
Courses

##### Research

Ergonomics/Human Factors Engineering  
Occupational Safety and Health  
Industrial Hygiene  
Work Physiology  
Anthropometry and Workplace Design  
Occupational Biomechanics  
Work Analysis and Design

#### III. Experience:

August 2008 to Present	Louisiana State University, Department of Mechanical and Industrial Engineering <u>Georgia Gulf Distinguished Professor of Engineering</u>
August 1989 to August 2008	Louisiana State University, Industrial Engineering Department <u>Associate Professor</u>
Summer 2003 & Summer 2004	Summer Faculty Fellow at NASA Johnson Space Center
August 1984 to August 1989	Louisiana State University, Industrial Engineering Department <u>Assistant Professor</u>

Establishing an Ergonomics/Human Factors program. Developing new undergraduate/graduate courses, laboratories, teaching and conducting research in the related areas.

Summer 1985                      University of Southern California, Institute of Safety and Systems Management  
Adjunct Assistant Professor  
Taught a graduate level Ergonomics course at Barksdale AFB.

December 1982                      The University of Alabama, Industrial Engineering Department  
to August 1984                      Assistant Professor  
Taught undergraduate and graduate courses in Human Factors, Manufacturing Processes, and Safety Management. Developed laboratories and conducted research in Ergonomics.

August 1979                      Texas Tech University, Industrial Engineering Department  
to December 1982                      Research Assistant in Ergonomics  
Conducted research in the areas of manual materials handling and development of an atlas of strengths, DHEW and U.S. Air Force grants.

November 1976                      Amir Kabir University  
to July 1979                      Lecturer  
Established a new I.E. department (writing curriculum and recruiting faculty) and taught basic I.E. courses.

January 1975                      The Free University  
to November 1976                      Asst. to the Vice-Chancellor of Operations  
Planning and Administration duties in creating a new multi-medium university system.

#### **IV. Publications:**

##### **A. Books:**

1. "Advances in Industrial Ergonomics and Safety." Taylor and Francis Ltd, June 1994 (Aghazadeh, F., Editor).
2. "Trends in Ergonomics/Human Factors V." Elsevier Publishers, Amsterdam, The Netherlands, 1988 (Aghazadeh, F., Editor).

##### **B. Refereed book chapters and articles in refereed journals:**

1. "Electromyography Analysis: Comparison of Maximum Voluntary Contraction Methods for Anterior Deltoid and Trapezius Muscles. *Procedia Manufacturing*, 3:4578-4583. 2015 (Al-Qaisi, S., and Aghazadeh, F.).
2. "Effect of handwheel height and angle on the EMG of shoulder, neck, and trunk muscles. Submitted to *Applied Ergonomics 2015* (Al-Qaisi, S., Aghazadeh, F., Ikuma, L. )
3. "Handwheel-valve operation: evaluation of an ergonomic wrench on muscle loading, perceived exertion, and efficiency". Submitted to *Applied Ergonomics 2015* (Al-Qaisi, S., Aghazadeh, F.)
4. 'Effects of Work Zone Configurations and Traffic Density on Performance Variables and Subjective Workload' Submitted to *Accident Analysis & Prevention 2015* (Mahmoud Shakouri, Laura H Ikuma, Fereydoun Aghazadeh, Karthy Punniaraj, and Sharif Ishak).
5. "Analysis of the impact of highway work zones and traffic density on drivers' performance, physiological and subjective workload." Submitted to *Transportation research part F: traffic psychology and behavior, 2015* (Mahmoud Shakouri, Laura H Ikuma, Fereydoun Aghazadeh, Isabelina Nahmens, and Sherif Ishak).
6. "Effect of Handwheel Height and Angle on Operators' Torque Production Capabilities." *IIE Transactions on Occupational Ergonomics and Human Factors 2015*(Qaisi, S., Aghazadeh, F., and Ikuma, L.)
7. 'Effect of noise emitted by forestry equipment on workers' hearing capacity'. *International Journal of Industrial Ergonomics*, 46: 105-112, 2015 (Aghazadeh, F., Fonseca, A., Ikuma, L., Al-Qaisi, S., and de Hoop, C.),
8. "The impact of Kaizen on safety in modular home manufacturing." *The International Journal of Advanced Manufacturing Technology*, January 2014, Volume 70, Issue 1-4, pp 725-734 2013 (James, J., Ikuma, L.H., Nahmens, I., and Aghazadeh, F.)
9. "Evaluation of overhead pushing and pulling exertions on the loading of neck and shoulder musculature." *Human Factors and Ergonomics in Manufacturing & Service Industries*, 22(4), 317 - 327. doi: 10.1002/hfm.20283. doi: 10.1002/hfm.20283. 2012 (Nimbarte, A. D., Aghazadeh, F., Ikuma, L., & Sun, Y.)
2. 'Effect of overhead lifting on neck and shoulder muscle activity and upper extremity joint angles.' *Occupational Ergonomics*, 10(4): 165-174 , 2011/2012 (Aghazadeh, F., Mokrani, M., Al-Qaisi, S., Ikuma, L. & Hassan, M.).
3. 'Modified track shoes and their effect on the EMG activity of calf muscles.' *Work: A Journal of Prevention, Assessment and Rehabilitation*, 41 suppl. 1, 1763-1770, 2012 (Greensword, M., Aghazadeh, F., Al-Qaisi, S.).

4. 'Effect of video-game experience and position of flight stick controller on simulated-flight performance.' *International Journal of Occupational Safety and Ergonomics (JOSE)*, 18(3): 429-441, 2012 (Cho, B., Aghazadeh, F., Al-Qaisi, S.).
5. "Handwheel valve operation: assessment of four opening methods in terms of muscle loading, perceived comfort, and efficiency." *Work: A Journal of Prevention, Assessment and Rehabilitation*, (2012). 41 suppl. 1, 2334-2340. doi: 10.3233/WOR-2012-0461-2334. (Aghazadeh, F., Al Qaisi, S., Hutchinson, F., & Ikuma, L).
6. "Effect of driving experience on visual behavior and driving performance under different driving conditions." *J. of Cognition Technology & Work*, 2012 (Nabatilan, L.B., Aghazadeh, F., Nimbarte, A.D., and Harvey, C.C.).
7. "Modeling the relationship between occupational stressors, psychosocial/physical symptoms and injuries in the construction industry." *International Journal of Industrial Ergonomics*, 41 (2), pp 106-117, 2011(Abbe, O. O., Harvey, C. M., Ikuma, L. H., and Aghazadeh, F.),
8. "Loading and recovery behavior of the human lumbar spine under static flexion." *WORK: A Journal of Prevention, Assessment, and Rehabilitation*, Vol. 14, No. 21, 2011, (Hatipkarasulu, G. S., Aghazadeh F., Nimbarte, A.D.)
9. "Neck Disorders: Understanding the Physical Loads on the Cervical Spine during Static Lifting Tasks." *Journal of Industrial Health*, 48(2), 145-153., 2010 (Nimbarte, A. D., Aghazadeh, F., Ikuma, L.H., and Harvey, C.M.).
10. "The Efficacy of Using a Taxonomic Approach in Predicting Performance of Navy Tasks." *Human Factors and Ergonomics in Manufacturing & Service*, 20 (5), pp. 443-450, 2010 (Richardson, K. W. and Aghazadeh, F., and Harvey, C. M.).
11. "Safety Training Issues for Hispanic Construction Workers." *Journal of Occupational and Environmental Hygiene*, Vol. 6, No. 9, 2009 (McGlothlin, J., Hubbard, B., Aghazadeh, F., Hubbard, S.)
12. "Understanding the Effect of Speed of Exertion on the Isokinetic Strength Using a Multiaxial Dynamometer." *International Journal of Occupational safety and Ergonomics* Vol. 15, No. 3. pp 255-263, 2009 (Nimbarte, A.D., Bogolu S.R., Aghazadeh F., Rajulu S.L., and Sweet R.L.).
13. "Progressive Fatigue Effects on Manual Lifting Factors." *Human Factors and Ergonomics in Manufacturing*, Vol. 19, No. 5 (Sep-Oct), 2009 (Banks, A.D., and Aghazadeh, F.).
14. "A Study of Oral Temperature Circadian Rhythm and Its Association with the Physical and Mental Performance. *Ergonomia*, *An International Journal of*

- Ergonomics and Human Factors IJE&HF, Vol. 30, No. 3, 2009, 221-229 (Nimbarte A.D., Amin, M.M., and Aghazadeh F.)
15. "Usability of Home Cholesterol Test Kits and Their Impact on Patients' Decisions." International Journal of Industrial Ergonomics, 39, 167-173, 2009. (Surabattula, D., Harvey, C. M., Aghazadeh F., Rood, J., and Darisipudi A.)
  16. "Major Factors Influencing Productivity of Water and Wastewater Treatment Plant Construction: Evidence From the Deep South USA" International Journal of Project Management, Volume 26, Issue 2, pp. 195-202, 2008 (Mojahed, R., Aghazadeh, F.)
  17. "Analysis of Engineering Discipline Grade Trends" Assessment and Evaluation in Higher Education, Vol. 33, pp 167-178., 2008 (McAllister, C.D., Jiang, X., and Aghazadeh, F.)
  18. "Effect of pressure suit on functional reach." Occupational Ergonomics Vol. 6, No, 3-4, pp129-142, 2006 (Uppu, N.R., Aghazadeh, F., and Nabatilan, L.).
  19. "Effect of Back belt on Inter-Joint Coordination ad Postural Index." Occupational Ergonomics, Vol. 5, No.4, 2005 (Nimbarte, A., Aghazadeh, F., and Harvey, C.).
  20. "Comparison of Current U.S. and Canadian Cigarette Pack Warnings" The International Quarterly of Community Health Education, Vol. 24, Issue 1, pp. 3-27, 2005-2006 (Nimbarte, A., Aghazadeh, F., and Harvey, C).
  21. "Physiological Fatigue Limit of Combined Manual Materials Handling Tasks.", Occupational Ergonomics, Vol. 5, No. 3, pp. 141-148, 2005 (Iridiastadi, H. Aghazadeh, F. and Waly, S.M.)
  22. "Effects of VDT Monitor Placement and Single versus Bifocal Glasses on Somatic Discomfort and Postural Profiles in Data Entry Tasks." Journal of Human Ergology, Vol. 33, No. 1-2, pp. 29-43, 2004 (Basrai, F., and Aghazadeh, F.).
  23. "Occupational Injuries of Veterinarians." Journal of Animal and Veterinary Advances, Vol. 3, No. 10, pp. 709-718, 2004 (Aghazadeh, F., and Nimbarte, A.)
  24. "Effects of Exercise Breaks on Performance, Muscular Load, and Perceived Discomfort in Data Entry and Cognitive Tasks." Computers & Industrial Engineering, Vol. 46, No 3 pp, 399-411, 2004 (Balci, R., and Aghazadeh, F.).
  25. "Direct-Estimation Methods for Efficiently Setting Maximum Acceptable Loads (MALs): Simple and Complex Lifting Tasks". Ergonomia Vol. 26, No.2, pp. 151-159, 2004. (Aghazadeh, F., Morrissey, S., and Bittner, Jr., A. C.).
  26. "Effect of Complex Aural Stimuli on Mental Performance." Journal of Human Ergology, 32: 49-55, 2003 (Vij, M., Aghazadeh, F., Ray, T., and Hatipkarasulu, S.).

27. "Effects of Optical Corrective Lenses and VDT Workstation on Somatic Elements among Data Entry Operators." Journal Human Ergology, Vol. 32, No. 2, 2004 (Basrai, F, Aghazadeh, F. and Ray, T.).
28. "The effect of work-rest schedules and type of task on the discomfort and performance of VDT users." Ergonomics, Vol. 46, No. 5, pp. 455-466, 2003 (Balci, R., and Aghazadeh, F.).
29. "Biomechanics and Electromyography of a Common Idiopathic Low Back Disorder." Spine, Vol. 28, No. 12, pp. 1235-1248, 2003 (Solomonow, M., Hatipkarasulu, S., Zhou, B., Baratta, R.V., and Aghazadeh, F.).
30. "Health Risks from Exposure to Metal-Working Fluids in Machining and Grinding Operations." International Journal of Occupational Safety and Ergonomics, Vol.9, No.1, pp. 75-95, 2003. (Li, K, Aghazadeh, F., Hatipkarasulu, S., and Ray, T.).
31. "Interaction of Physical and Mental Work." International Journal of Occupational Safety and Ergonomics, Vol. 8, No. 4, pp. 451-463, 2002. (Singh, S., Aghazadeh, F., and Ray, T. G.).
32. "Stair Riser Height and the Impact Force." Advances in Occupational Ergonomics and Safety XI, Bittner, A.C., Champney, P.C., and Morrissey, S.J., ed. pp. 490-497, 2001. (Kfoury, G., Aghazadeh, F, and Waly, S.M.).
33. "Influence of VDT Monitor Position on Discomfort and Performance of Users with or without Bifocal Lenses." Journal of Human Ergology, Vol. 27, No. 2, 2001. (Balci, R., and Aghazadeh, F.).
34. "Occupational Injury/Illness Trends in Louisiana Industry." Advances in Occupational Ergonomics and Safety XI, Lee, G.C.H., ed., pp. 355-358, 1999. (Banks, A., and Aghazadeh, F.).
35. "Modeling of Risk Factors in the VDT Workstation Systems." Occupational Ergonomics, Vol. 1 (3) pp. 189-211, 1998 (Lu, H., and Aghazadeh, F.).
36. "A Hazard Analysis System for Robotics Workcells." Human Factors and Ergonomics in Manufacturing, Vol. 8 (4) pp. 1-8, 1998 (Aghazadeh, F., Chapleski, R., and Hirschfeld, R.).
37. "Work-Rest Schedule for Data Entry Operators." Advances in Occupational Ergonomics and Safety III, Kumar, S., ed., pp. 155-158, 1998 (Balci, R., Aghazadeh, F., and Waly, S.M.).
38. "A Design and Selection Guide for Hand Held Tools." Ergonomics for Plant Managers, Karwowski and Salvendy, ed., Society of Manufacturing Engineers, Chapter 5, pp. 65-86, 1998 (Aghazadeh, F., and Waly, S.M.).

39. "Static and Dynamic Strengths of Males and Females in Seating and Standing Postures." Advances in Occupational Ergonomics and Safety II, Das, B., Karwowski, W., ed., pp. 293-296, 1997 (Aghazadeh, F., Waly, S.M., and Nason J.).
40. "Models for Lifting Load Capacity for Indonesian Population." Occupational Ergonomics, Vol. 1, No. 1, pp. 67-74, 1998 (Aghazadeh, F., Waly, S.M., and Santoso, D.S.).
41. "Determination of the Maximum Acceptable Weights of Lifting and Lowering Using the Direct Estimation Method." Ergonomics and Musculoskeletal Disorders, Karwowski, W., Wogalter, M., and Dempsey, P.G., ed., HF Publications, pp. 735-738, 1997 (Aghazadeh, F., Lu, H., and Morrissey, S.J.)
42. "Anthropometric and Lifting Load Capacity Measurement of Indonesian Workers." Advances in Occupational Ergonomics and Safety I, Mital, a., Krueger, H., Kumar, S., Menozzi, M., and Fernandez, J.E., pp. 54-59, 1996 (Aghazadeh, F. Waly, S.M., and Santoso, D.S.).
43. "Effect of Mental Load on Lifting Capacity." Advances in Industrial Ergonomics and Safety VII, Bittner, A.C. and Champney, P.C., ed., Taylor and Francis, pp. 741-746, 1995. (Aghazadeh, F. and Singh, S.).
44. "Characteristics and Cost Analysis of Injuries and Illnesses in Poultry Processing Operations in Louisiana." Journal of Appl. Poultry Res., Vol. 3, pp. 342-354, 1994 (Vellala, C., Pine, J. C., Marx, B. D., Farr, A. J., Sistler, F. E., and Aghazadeh, F.).
45. "Analysis of Injuries and Illnesses in Poultry Processing Industries in Louisiana." Advances in Industrial Ergonomics and Safety VI, Taylor and Francis, pp. 105-110, 1994 (Vellala, C., Aghazadeh, F., Pine, J. C., and Marx, B. D.).
46. "The Perceived Discomfort and Musculoskeletal Complaints Associated with Varying Positions of VDT and Keyboard." Advances in Industrial Ergonomics and Safety VI, Taylor and Francis, pp. 475-490, 1994 (Lu, H., and Aghazadeh, F.).
47. "Relationship Between Posture and Lifting Capacity." International Journal of Industrial Ergonomics, Vol. 13. pp. 353-356, 1994 (Lu, C., Aghazadeh, F.)
48. "Psychophysical Determination and Modeling of Load Carrying Capacity." International Journal of Industrial Ergonomics, Vol.13. No. 1, pp. 51-65, 1994 (Lu, C., Aghazadeh, F.).
49. "The Effect of High Heels on Lifting Capacity." Advances in Industrial Ergonomics and Safety V, R. Nielsen and K. Jorgensen, ed., Taylor and Francis, pp. 237-241, 1993 (Aghazadeh, F., and H. Lu).
50. "Determination of Optimal Location for Parachute Ripcord Handle in a Suspended Position." Applied Ergonomics, Vol. 24, No. 2, pp. 119-124, 1993, (N.T. Latif, Aghazadeh, F., A.M. Waikar, and K.S. Lee).

51. "VDT in Offices: A Field Study." Human Computer Interaction, Smith, M. J. and Salvendy, G. Editors, Elsevier Publishers, pp. 786-790, 1993 (Lu, H., Caylor, J., and Aghazadeh, F.).
52. "Modification of CAPP Systems for CAPP/Scheduling Integration." Computers and Industrial Engineering, Vol. 25, Nos. 1-4, pp. 203-206, 1993 (Liao, T. W., Coates, E. R., Aghazadeh, F., Mann, L., and Guha, N.)
53. "Impact of Anthropometric Variables and Sex on Grip Strength." Journal of Human Ergology, Vol. 22, No. 2, pp. 75-81, December 1993 (Aghazadeh, F., Lee, K.S., Waikar, A.M.).
54. "Survey of Robot Safety in Industry." The International Journal of Human Factors in Manufacturing Vol. 3, No. 4, pp. 369-379, 1993 (Hirschfeld, R. A., Aghazadeh, F., and Chapleski, R. C.).
55. "Prediction of the Maximum Acceptable Weight of Symmetrical and Asymmetrical Lift Using Direct Estimation Method." Ergonomics Vol. 35, Nos. 7/8, pp. 755-768, 1992, (Chen, F., Aghazadeh, F., and Lee, K.S.).
56. "A New Method for Screening Low Back Injuries and Malingerers." Forensic Reports, Vol. 4, No. 3, pp. 245-259 1991, (Waikar, A.M., Aghazadeh, F.).
57. "Evaluating Lifting Tasks Using Subjective and Biomechanical Estimates of Stress at the Lower Back." Ergonomics, Vol. 34, No. 1, pp. 33-47, 1991 (Waikar, A.M., Lee, K.S., Aghazadeh, F., and Parks, C.).
58. "Maximum Acceptable Weight Using different Carrying Methods." Advances in Industrial Ergonomics and Safety II, Das, B., Ed. Taylor and Francis LTD, London, 1990, (Lee, K.S., Aghazadeh, F., Bruckner, A., Waikar, A.M., and Lum, C.).
59. "Evaluation of Workplaces for the Risk of Carpal Tunnel Syndrome." Advances in Industrial Ergonomics and Safety II, Das, B., Ed. Taylor and Francis LTD, London, 1990 (Waikar, A.M., Lee, K.S., Sanyal, Parks, C., and Aghazadeh, F.)
60. "Back Problems Affecting Preschool Special Education Staff." Advances in Industrial Ergonomics and Safety II, Das, B., Ed. Taylor and Francis LTD, London, 1990, (Aghazadeh, F., Broussard, J.F., Waikar, A.M., and Bittner, A.C.).
61. "Maximum Acceptable Weight of Lift for Side and Back Lifting." J. of Human Ergology, Vol. 19, pp. 3-11, 1990 (Lee, K.S., Waikar, A.M., and Aghazadeh, F.).
62. "A Study of Lifting Characteristics of Frequent Lifting." Advances in Industrial Ergonomics and Safety I, Mital, A., Ed. Taylor and Francis LTD, London, 1989, pp. 701-707 (Lee, K.S., Aghazadeh, F., Mital, A., and Hsu, J.).



63. "Impact of Anthropometric Variables and Sex on Grip Strength." Advances in Industrial Ergonomics and Safety I, Mital, A., Ed. Taylor and Francis LTD, London, 1989, pp. 501-505 (Aghazadeh, F., Waikar, A.M., Backhouse, T., and Davis, P.).
64. "Guidelines for Preventing Hand Tool Related Accidents and Illnesses." Ergonomics, Vol. 1, No. 1, 1989, pp. 2-11 (Aghazadeh, F., Mital, A., and Latif, N.T.).
65. "Ergonomically Designed Chemical Plant Control Room." Trends in Ergonomics/Human Factors V, Aghazadeh, F., ed., North Holland Publishing Company, Amsterdam, The Netherlands, 1988, pp. 357-364 (Combs, R.B., and Aghazadeh, F.).
66. "Ergonomics of the Farm Tractor." Trends in Ergonomics/Human Factors V, Aghazadeh, F., ed., North Holland Publishing Company, Amsterdam, The Netherlands, 1988, pp. 249-256 (Usher, J.M., Aghazadeh, F., and Azimullah, R.).
67. "A Probability Model for Group Inspection." Trends in Ergonomics/Human Factors V, Aghazadeh, F., ed., North Holland Publishing Company, Amsterdam, The Netherlands, 1988, pp. 143-150 (Waikar, A.M., Aghazadeh, F., and Lee, K.S.).
68. "Vibration and Noise Problems Associated With the Gardening Equipment." Trends in Ergonomics/Human Factors V, Aghazadeh, F., ed., North Holland Publishing Company, Amsterdam, The Netherlands, 1988, pp. 549-556 (Lee, K.S., Aghazadeh, F., and Waikar, A.M.).
69. "Injuries Due to Hand tools: Results of a Questionnaire." Applied Ergonomics, Vol. 18, No. 4, 1987, pp. 273-278 (Aghazadeh, F., and Mital, A.).
70. "Some Considerations in the Use of Isometric, Isokinetic and Isoinertial Strength Models for Predicting Lifting Capability." International Journal of Industrial Ergonomics Vol. 2, 1987, pp. 101-110 (Aghazadeh, F., and Jiang, B.C.).
71. "A System for Measurement of Isokinetic Strength for Estimation of Load Handling Capacity." IIE Transactions, Vol. 19, No. 3, 1987, pp. 348-350 (Aghazadeh, F., and Ayoub, M.M.).
72. "Psychophysical Lifting Capabilities for Overreach Heights." Ergonomics, Vol. 30, No. 6, 1987, pp. 901-909 (Mital, A., and Aghazadeh, F.).
73. "Quality Improvement Using Multiple Inspectors as a Group." Trends in Ergonomics/Human Factors IV, S.S. Asfour, ed., North Holland Publishing Company, Amsterdam, The Netherlands, 1987, pp. 81-88 (Waikar, A.M., Lee, K.S., and Aghazadeh, F.).
74. "Safety Problems in the Oil and Gas Extracting Industry." Trends in Ergonomics/Human Factors IV, S.S. Asfour, ed., North Holland Publishing

- Company, Amsterdam, The Netherlands, 1987, pp. 447-452 (Aghazadeh, F., Kiminta, D.M., Lee, K.S., Waikar, A.M., and Mann, L.).
75. "Lower Back Loading in Dynamic Pushing and Pulling." Trends in Ergonomics/Human Factors IV, S.S. Asfour, ed., North Holland Publishing Company, Amsterdam, The Netherlands, 1987, pp. 949-956 (Lee, K.S., Waikar, A.M., and Aghazadeh, F.).
  76. "Dynamic Strength Models for Manual Handling of Different Containers." Journal of Human Ergology, Vol. 15, No. 2, Dec. 1986, pp. 131-138 (Aghazadeh, F.).
  77. "Modeling of Decision Making Behavior of Inspectors." Trends in Ergonomics/Human Factors III, W. Karwowski, ed., Elsevier Science Publishers, Amsterdam, The Netherlands, 1986, pp. 351-357 (Jaraiedi, M., Aghazadeh, F., and Herrin, G.D.).
  78. "Prediction of Lower Back Muscle Forces in Pushing and Pulling." Trends in Ergonomics/Human Factors III, W. Karwowski, ed., Elsevier Science Publisher, Amsterdam, The Netherlands, 1986, pp. 683-692 (Lee, K.S., Chaffin, D.B., Waikar, A.M., and Aghazadeh, F.).
  79. "Relative Importance of Isometric and Isokinetic Lifting Strengths in Estimating Maximum Lifting Capabilities." Journal of Safety Research, Vol. 17, No. 2, 1986, pp. 65-71 (A. Mital, Aghazadeh, F., and W. Karwowski).
  80. "Effect of Gender on Physical Work Capacity and Strength." Trends in Ergonomics/Human Factors II, R. E. Eberts and C.G. Eberts, Editors, Elsevier Science Publisher, Amsterdam, The Netherlands, 1985, pp. 551-557 (Aghazadeh, F., and Dharwadkar, S.).
  81. "A Comparison of Dynamic and Static Strength Models for Prediction of Lifting Capacity." Ergonomics, Vol. 28, No. 10, 1985, pp. 1409-1417 (Aghazadeh, F., and Ayoub, M.M.).
  82. "Use of GMDH to Predict Human Dynamic Strengths." Comput. & Indus. Engng Vol. 9, No.4, 1985, pp. 371-377 (Mital, A., Aghazadeh, F., and Ramanan, S.).
  83. "Prediction Models for Manual Handling of Bags." Trends in Ergonomics/Human Factors I, A. Mital, ed., Elsevier Science Publisher, Amsterdam, The Netherlands, 1984, pp. 155-160 (Aghazadeh, F.).
  84. "Modeling of Lifting Capacity as a Function of Operator and Task Variables." Safety in Manual Materials Handling, C.G. Drury, ed. DHEW (NIOSH) Publication No. 78-185, 1978, pp. 120-130 (Ayoub, M.M., Dryden, R.D., McDaniel, J.W., Knipfer, R.E., and Aghazadeh, F.).

**Refereed items accepted for publication or accepted with changes for publication but not yet published or under review:**

1. Greensword, M., Aghazadeh, F., Al-Qaisi, S. (submitted). Biomechanical evaluation of modified track shoes.

### **C. Refereed conference proceedings:**

1. "Age, Performance, and Retention Effects on Acceptance of Health Technology Presented at the 31st International Congress on Occupational health," Seoul, S. Korea, May 31-June 5, 2015, (Laura Ikuma, Drew Ford, Fereydoun Aghazadeh)
2. "Use of heart rate, perceived exertion, and strength to determine resting time" Presented at the 31st International Congress on Occupational health, Seoul, S. Korea, May 31-June 5, 2015, (Aghazadeh, F., and Simmons, R.)
- 3.
4. "Electromyography analysis: Comparison of maximum voluntary contraction methods for anterior deltoid and trapezius muscles." The 6th International Conference on Applied Human Factors and Ergonomics, Las Vegas, July 2015. Al-Qaisi, S., Aghazadeh, F. (2015).
5. "Using Eye-Tracking to Investigate Strategy and Performance of Expert and Novice Control Room Operators." In proceedings of the Human Factors and Ergonomics Society 58th Annual Meeting. October 27 – 31, 2014, Chicago, Illinois, (Koffskey, C., Ikuma, L., Harvey, C., and Aghazadeh, F.)
6. "Determination of forces required to open valves." In proceedings of the 5th International Conference on Applied Human Factors and Ergonomics (AHFE 2014), July 19-23, 2014, Krakow, Poland, (S. Al-Qaisi, Lebanon, F. Aghazadeh L. Ikuma)
7. "Analysis of accidents in trailer towing." In proceedings of the 5th International Conference on Applied Human Factors and Ergonomics (AHFE 2014), July 19-23, 2014, Krakow, Poland, (F. Aghazadeh, and A. Pisharody)
8. "The investigation of valve operators' torque production capabilities at different handwheel heights and angles." In proceedings of the 57th International Annual Meeting of the Human Factors and Ergonomics Society. September 30-October 4, 2013, San Diego, California, (Al-Qaisi, S., Aghazadeh, F., Ikuma, L.)
9. "Electromyography analysis: Comparison of maximum voluntary contraction methods for anterior deltoid and trapezius muscles. In proceedings of the XXVth Annual International Occupational Ergonomics and Safety Conference. June 6-7, 2013, Atlanta, GA, USA. (Al-Qaisi, S., Aghazadeh, F., Ikuma, L.)

10. "Valve operation: Evaluation of handwheel actuation techniques in terms of muscle loading, perceived comfort, and efficiency. In proceedings of the Human Factors and Ergonomics Society 56th Annual Meeting. October 22 – 26, 2012, Boston, MA. (Aghazadeh, F., Ikuma, L., Al-Qaisi, S., & Hutchinson, F.)
11. "Work-related fatality trend in Louisiana industries." In proceedings of the 24th Annual International Occupational Ergonomics and Safety Conference. June 7-8, 2012, Ft. Lauderdale, FL. (Aghazadeh, F., Greensword, M., Al-Qaisi, S.)
12. "Influence of lean on safety risk exposure in modular homebuilding." In proceedings of the 2012 Industrial and Systems Engineering Research Conference, May 19 - 23, 2012, Orlando, Florida. (James, J., Ikuma, L., I Nahmens, I., and Aghazadeh, F.)
13. "Modified track shoes and their effect on the EMG activity of calf muscles." In proceedings of the IEA 2012: 18th World Congress on Ergonomics, February 12-16, 2012 Recife, Brazil (Greensword, M., Aghazadeh, F., and Al-Qaisi, S.) Published in *Work 41 (2012) 1763-1770*.
14. "Handwheel valve operation: assessment of four opening methods in terms of muscle loading, perceived comfort, and efficiency." In proceedings of the IEA 2012: 18th World Congress on Ergonomics, February 12-16, 2012 Recife, Brazil (Aghazadeh, F., Saif Al Qaisi, S., Hutchinson, F. and Ikuma, L.) Published in *Work 41 (2012) 2334-2340*.
15. "Biomechanical analysis of dynamic overhead lifting" In proceedings of the Institute of Industrial Engineers Annual Conference, June 5-9, 2010, Cancun, Mexico (Aghazadeh, F., Mokrani, M., Ikuma, L., and Hassan, M.)
16. "Loading of cervical spine during isometric overhead exertions." In the proceedings of the Institute of Industrial Engineers Annual Conference, June 5-9, 2010, Cancun, Mexico (Nimbarte, A. D., Unnikrishnan, A., and Aghazadeh, F.)
17. "Effect of overhead pushing and pulling exertions on the cervical spine loading." In the proceedings of the XXIIInd Annual International Occupational Ergonomics and Safety Conference, June 10-11, 2010, Tempe, Arizona, USA Nimbarte, A. D., Sun, Y., Aghazadeh, F.)
18. "Understanding the physical risk factors affecting cervical musculoskeletal disorders. (2010). In proceedings of the Human Factors and Ergonomics Society's 54th Annual Meeting, September 27-October 1, 2010, San Francisco, California. (Nimbarte, A. D., Sun, Y., Aghazadeh, F., and Ikuma, L.H.)
19. "Evaluation of Risk Factors for Cervical Spine Disorders Due to Manual Material Handling Tasks." In proceedings of the IEA Triennial Congress. August 9-14, 2009, Beijing, China. (Nimbarte, A. D., Aghazadeh, F., and Ikuma, L.H.)

20. "Noise level in forest logging industry and hearing loss of loggers." In proceedings of the IEA Triennial Congress. August 9-14, 2009, Beijing, China. (Aghazadeh, F., Fonseca, A. A., Nimbarte, A.D., De Hoop, C.F. (2009).
21. "Loading of the Cervical Spine during Isometric Lifting Tasks." In proceeding of the International Occupational Ergonomics and Safety Annual Conference. June 11-12, Dallas, USA, 2009. (Nimbarte, A. D., Aghazadeh, F., and Ikuma, L.H.).
22. "Understanding the Contribution of Neck Muscles during Isometric Lifting Tasks." In proceedings of the International Occupational Ergonomics and Safety Annual Conference, Chicago, June 12-13, 2008. (Nimbarte, A. D., Aghazadeh, F., and Ikuma, L.H.)
23. "A Survey of Occupational Stress Models, Stressors and Relationship to Injuries." International Proceedings of the 44th Annual Conference for the Associated Schools of Construction, Auburn, AL. April 2-5, 2008, (Abbe, O. O., Harvey, C. M., Ikuma, L. and Aghazadeh, F.)
24. "Productivity Trends and Improvement at Construction Projects." In Proceedings of IIE Annual Conference and Expo, Nashville, Tennessee, May 19-23, 2007. (Mojahed, S., and Aghazadeh, F.)
25. "IE's Role in Creating Innovation in the Construction Industry." In Proceedings of IIE Annual conference and Expo, Nashville, Tennessee, May 19-23, 2007. (Harvey, C., and Aghazadeh, F.)
26. "Shoulder Muscle Loading During Overhead Work" In Proceedings of the XVIth Congress of the International Ergonomics Association, Maastricht, The Netherlands. July 10-14, 2006, pp. 573-577 (Venkata, B. B., Aghazadeh, F., Jiang, X., and Monroe, W.D.).
27. "Dynamic Strength Using Multipurpose Multiaxial Isokinetic Dynamometer" XVI<sup>th</sup> Congress of the International Ergonomics Association, July 10-14, 2006. Maastricht, The Netherlands (Bogolu, S.R., Aghazadeh, F., Rajulu, S.L., and Sweet, R.L.).
28. "Home Cholesterol Test Kits: Helpful or Harmful?" In Proceedings of the Human Factors and Ergonomics Society 49th Annual Meeting, Orlando, Florida, September 26-30, 2005, pp. 979-983 (Surabattula, D., Harvey, C. M. Rood, J. C., and Aghazadeh, F.).
29. "Assessment of NASA-STD-3000 Man-System Integration Standards (MSIS) Anthropometry/Biomechanics/Strength Requirements for the Orbital Space Plane (OSP)" In the Proceedings of the XIX International Annual Occupational Ergonomics and Safety Conference, June 27-29 2005, Las Vegas, Nevada, pp. 444-449 (Aghazadeh, F. and Rajulu, S.L).

30. "Musculoskeletal Disorders in Dentistry: An Epidemiological Study" In the Proceedings of the XIX International Annual Occupational Ergonomics and Safety Conference, June 27-29 2005, Las Vegas, Nevada, pp. 450-454 (Pitts, M. F., Aghazadeh, F., and Harvey, C.).
31. "Postural Changes Caused by Back Belt." In the Proceedings of the XVIII International Annual Occupational Ergonomics and Safety Conference, May 19-22, 2004, Houston, Texas (Nimbarte, A., and Aghazadeh, F.).
32. "Observation of Driver Response Patterns in Car Following." In the Proceedings of the XVIII International Annual Occupational Ergonomics and Safety Conference, May 19-22, 2004, Houston, Texas (Hatipkarasulu, Y., and Aghazadeh, F.).
33. "Fatigue Effects on Manual Lifting Factors." In the Proceedings of the XVIII International Annual Occupational Ergonomics and Safety Conference, May 19-22, 2004, Houston, Texas (Banks, A.D., and Aghazadeh, F.).
34. "Acquisition of Flying Skills and Position of Flight Control Stick." in the Proceedings of XVth Triennial Congress of the International Ergonomics Association, August 24-29, 2003 Seoul, Korea (Cho, Bo-keun and Aghazadeh, F.).
35. "Cigarette Warning Labels: A Survey." in the Proceedings of XVth Triennial Congress of the International Ergonomics Association, August 24-29, 2003 Seoul, Korea (Aghazadeh, F., Nimbarte, F., Bairi, M., Latham, T. ).
36. "Removal of Child From Carseat: *Investigation of Child Removal Posture*. In the Proceedings of the XVI International Annual Occupational Ergonomics and Safety Conference, June 9-12, 2002, Toronto, Canada (Banks, A., Aghazadeh, F. and, Li, L.).
37. "Biomechanical Testing of the Spine." in the Proceedings of XVI International Annual Occupational Ergonomics and Safety Conference, June 9-12, 2002, Toronto, Canada (Hatipkarasulu, S., Solomonow, M., Aghazadeh, F., and Ray, T.G.).
38. "A Strategy to Design a Work-Rest Schedule for VDT Operators Performing Data Entry and Mental Tasks." Proceedings of XIVth Triennial Congress of the International Ergonomics Association/44th Annual Meeting of the Human Factors and Ergonomics Society, San Diego, California, July 30-August 4, 2000, pp. 232-235 (Balci, R., and Aghazadeh, F.).
39. "Maximum Aerobic Capacity of Combined Manual Materials Handling and Standard Tasks." Proceedings of the Human Factors and Ergonomics Society 41st Annual Meeting, Albuquerque, N.M., October 1997, pp. 670-674, (Iridiastadi, H., Aghazadeh, F., and Waly, S.M.).

40. "Risk Factors and Their Interactions in VDT Workstation Systems." Proceedings of the Human Factors and Ergonomics Society 40th Annual Meeting, Philadelphia, PA, September 2-6, 1996, pp. 943 (Lu, H. and Aghazadeh, F.).
41. "A Methodology to Assess Safety Conditions in Louisiana Agriscience laboratories." Presented at the Southern Agricultural Education Research Meeting, Athens, Georgia, March 31-April 1, 1996, (Melendez, J.A., Kotrlik, J.W., Bengtson, R. and Aghazadeh, F.).
42. "Occupational Diseases in Performing Artists." Proceedings of the Human Factors and Ergonomics Society 39th Annual Meeting, San Diego, California, October 9-13, 1995, pp. 958, (Ward, A. and Aghazadeh, F.).
43. "Risk Factors in VDT Workstation Systems- A Review of Recent Research." Proceedings of the Human Factors and Ergonomics Society 39th Annual Meeting, San Diego, California, October 9-13, 1995, pp. 943, (Lu, H. and Aghazadeh, F.).
44. "The Efficacy of Using a Taxonomy Approach in Prediction Performance of Navy Jobs." Published in proceedings of the Occupational Ergonomics Symposium, pp. 35-39, Lubbock, Texas, April 8, 1995.
45. "An Analysis of Injuries in the Oil and Gas Field Services." in Proceedings of the 3rd Pan-Pacific Conference on Occupation Ergonomics, Seoul, Korea, November 13-17, 1994 (Aghazadeh, F., Lee, K. S., and Hashmi, I.).
46. "Determination of the Maximum Acceptable Weights of Lifting and Lowering using the Direct Estimation Method." Proceedings of the Human Factors and Ergonomics Society 37th Annual Meeting, Seattle, 1993, pp. 735-738, (Aghazadeh, F. and Lu, H.).
47. "Industrial Robot Use: Survey Results and Hazard Analysis." Proceedings of the Human Factors and Ergonomics Society 37th Annual Meeting, Seattle, 1993, pp. 994-997, (Aghazadeh, F., Hirschfeld, R., and Chapleski, R.).
48. "VDT Positions: Effect on Performance and comfort." Proceedings of the Human Factors and Ergonomics Society 37th Annual Meeting, Seattle, pp. 397-400, 1993 (Lu, H, and Aghazadeh, F.).
49. "Relationship Between Alcohol Consumption, Mental Load, and Physical Capacity." Proceedings of the M.M. Ayoub Occupational Ergonomics Symposium, April 16-17, 1993, Lubbock, Texas, pp. 9-13 (Aghazadeh, F., Murphy, E., Bittner, A.C.).
50. "Integrating Computer-Aided Process Planning and Scheduling by Incorporating Scheduling Criteria into An Existing Generative Process Planning System." 15th Conference on Computers and Industrial Engineering, Florida, March 8-10, 1993, (Liao, T.W., Coates, E. R., Aghazadeh, F. and Mann, L.).

51. "Fatigue Effect on Lifting Acceleration in Frequent Lifting." Proceeding of the Human Factors Society 36th Annual Meeting, Atlanta, Georgia, October 8-12, 1992, pp. 649-653 (Kim, Y., Lee, K.S., and Aghazadeh, F.).
52. "Infogrip Chordic Keyboard Evaluation." Proceeding of the Human Factors Society 36th Annual Meeting, Atlanta, Georgia, pp. 268-271, October 8-12, 1992, (Lu, H., and Aghazadeh, F.).
53. "Utilization of Direct Estimation Method to Predict the Maximum Acceptable Weight of Symmetrical and Asymmetrical Lift." Proceeding of the Human Factors Society 36th Annual Meeting, Atlanta, Georgia, October 8-12, 1992, PP. 679-683 (Chen, F., Aghazadeh, F., and Lee, K.S.).
54. "Strength and Endurance Capability in Restricted Postures." Proceedings of the 11th Congress of the International Ergonomics Assoc., Paris, France, pp. 6-9, July 1991, in "Designing for Everyone" Y. Queindec and F. Daniellou, Editors, Taylor and Francis, (Lee, K.S., Aghazadeh, F., and Bruckner, A.).
55. "A Study of the Static Anthropometric Jamaican Agricultural Workers." Proceedings of the 11th Congress of the International Ergonomics Assoc., Paris, France, pp. 897-900, July 1991, in "Designing for Everyone" Y. Queindec and F. Daniellou, Editors, Taylor and Francis, (Lamey, J., Aghazadeh, F., and Nye, J.).
56. "An Investigation of Different Modes of Load Carrying." Proceedings of the 11th Congress of the International Ergonomics Assoc., Paris, France, pp. 356-359, July 1991, in "Designing for Everyone" Y. Queindec and F. Daniellou, Editors, Taylor and Francis (Aghazadeh, F., Lee, K.S., Waikar, A.M., and Lu, H.).
57. "The Anthropometric Measurements of Jamaican Agricultural Workers." Proceedings of the 1990 ASAE International Winter meeting, Chicago, IL, December 18-21, 1990, (Lamey, J. P., Aghazadeh, F., and Nye, J.C.).
58. "Endurance in Restricted Postures." Proceeding of the Human Factors Society 34th Annual Meeting, Orlando, Florida, October 8-12, 1990, pp. 697-701 (Lee, K.S., Aghazadeh, F., Waikar, A.M., and Allen, M.).
59. "Utilization of Direct Estimation Method to Determine the Effects of Task Variables on the Capacity to Lift Loads." Proceedings of Human Factors Society 32nd Annual Meeting, Anaheim, Calif., October 24-28, 1988, pp. 687-690 (Aghazadeh, F., Lee, K.S., Waikar, A.M., and Bittner, A.C.).
60. "Subjective and Biomechanical Evaluation for Lifting Tasks." Proceedings of Human Factors Society 32nd Annual Meeting, Anaheim, Calif., October 24-28, 1988, pp. 683-686 (Waikar, A.M., Lee, K.S., and Aghazadeh, F.).
61. "Strength of Upper Body in a Suspended Position." Ergonomics International 1988. Proceedings of the 10th Congress of the International Ergonomics Association,



- Sydney, Australia, August 1-5, 1988, pp. 333-336 (Aghazadeh, F., Latif, N.T., Lee, K.S., and Waikar, A.M.).
62. "Evaluation of Trailer Hitches Using Ergonomics Principles." Proceedings of Human Factors Society 31st Annual Meeting, New York, N.Y., October 19-23, 1987, pp. 210-212 (Lee, K.S., Waikar, A.M., Aghazadeh, F., and Chen, F.).
  63. "Comparison of Strength Models for Predicting Lifting Capacity." Proceedings of the International Conference on Mathematical and Statistical Models in Behavioral Research, Zakopane, Poland, October 1987 (Aghazadeh, F., Waikar, A.M., and Jiang, C.).
  64. "Hand and Handtool Related Work Injuries." Proceedings of the IXth International Conference on Production Research, Cincinnati, Ohio, August 17-20, 1987, pp. 404-408 (Aghazadeh, F., and Mital, A.).
  65. "An Electromyographic Investigation of Neck Angles for Microscopists." Proceedings of Human Factors Society 30th Annual Meeting, Dayton, Ohio, September 29 - October 3, 1986, pp. 548-551 (Lee, K.S., Waikar, A.M., Aghazadeh, F., and Tandon, S.).
  66. "Two and Three-Dimensional Biomechanical Torso Models for Pushing and Pulling." Proceedings of Human Factors Society 30th Annual Meeting, Dayton, Ohio, September 29 - October 3, 1986, pp. 81-85 (Lee, K.S., Chaffin, D.B., and Aghazadeh, F.).
  67. "Determination of the Optimal Location of Ripcord Handles in Parachutes." Proceedings of Human Factors Society 30th Annual Meeting, Dayton, Ohio, September 29 - October 3, 1986, pp. 531-534 (Aghazadeh, F., Latif, N., Lee, K.S., Waikar, A.M., and Jaraiedi, M.).
  68. "A Decision Theoretic Approach to Evaluating Imperfect Inspectors." Proceedings of 1986 International Industrial Engineering Conference, Dallas, Texas, May 11-14, 1986, pp. 392-396 (Jaraiedi, M., Herrin, G.D., and Aghazadeh, F.).
  69. "An Evaluation of Two Methods for Assessment of MMH Activities." Proceedings of Human Factors Society 29th Annual Meeting, Baltimore, Maryland, September 29-October 3, 1985, pp. 1000-1001 (Aghazadeh, F.).
  70. "A Review of Hand Tool Injuries." Ergonomics International 1985. Proceedings of the Ninth Congress of the International Ergonomics Association, Bournemouth, England, September 2-6, 1985, pp. 85-87 (Mital, A., and Aghazadeh, F.).
  71. "Prediction Models for Manual Handling of Bags." Proceedings of the 1st Mid-Central Ergonomics/Human Factors Conference, Cincinnati, Ohio, April 12-13, 1984, pp. 101-107 (Aghazadeh, F.).

**D. Research reports, book reviews, abstracts, and other publications:**

1. "The Impact of Sign Placement and Merge Type on Driving Behavior in Construction Zones." In proceedings of Institute of Industrial Engineers Annual Conference. May, 2013, San Juan Puerto Rico. (Shakouri, M., Punniaraj, K., Ikuma, L., and ghazadeh, F.)
2. "Hearing loss in Louisiana loggers" .The Louisiana Logger 15(1) Louisiana Logging Council, Alexandria, LA. 2009 (de Hoop, C., A. Fonseca, F. Aghazadeh and L. Ikuma).
3. "Hearing Threshold Shift of Loggers Exposed to Long-term Noise." Society of American Foresters National Convention held at Orlando, FL. Bethesda, MD. Sept. 30 - Oct. 2, 2009 (de Hoop, C.A., Aghazadeh, F., Fonseca, A., and Ikuma, L.).
4. "Construction Safety Training Issues for Hispanic Construction Employees", McGlothlin, Hubbard, Aghazadeh, Hubbard, Mena, Bertot, Huerta and Player, National Occupational Injury Research Symposium, Pittsburgh, PA, October 2008.
5. "Evaluation of Suited and Unsited Human Functional Strength Using Multipurpose, Multiaxial Isokinetic Dynamometer" Final Report, NASA Contract No. NNNJ05HD43G, 2006 (Aghazadeh, F.).
6. "An Ergonomic Comparison of Swedish Standards for Forest Machines to American-Made Forest Machines." Abstract appeared in the proceedings of Forest Products Society meeting in Quebec city, Canada, June 2005 ( Robert H. Dupré, Michael J. Donnelly, M.J., Brown, C., Aghazadeh, F., de Hoop, C.F.).
7. "Integration of updated Anthropometry/Biomechanics/Strength Standards into NASA-STD-3000 Man-System (MSIS)." Final Report, NASA Contract No. NNNH04HB24G, October 2004 (Aghazadeh, F.).
8. "Evaluation of Suited and Unsited Human Functional Strength Using Multipurpose, Multiaxial Isokinetic Dynamometer." Final Report, John Space Center, August 2004 (Aghazadeh, F.).
9. "Selection and Assessment of NASA-STD-3000 Man-System Integration Standards (MSIS) Anthropometry/Biomechanics/Strength requirements for the Orbital Space Plane (OSP)." Final Report, John Space Center, August 2003 (Aghazadeh, F.).
10. "A Task Analysis Procedure for Louisiana Department of Labor." Final report submitted to the Department of Labor, 2003 (Aghazadeh, F., and Ray, T.G.).
11. "Analysis of User Waiting Costs for Construction Projects on Louisiana's Interstate Highway System." Final report submitted to Louisiana Transportation Research Center, 2002 (Aghazadeh, F., Knapp, G.M., and Ray, T.G.)
12. "Characteristics and Cost Analysis of Cumulative Trauma Disorders in Poultry Processing Operations in Louisiana: 1985-1991." Poster presentation at the Human

- Factors and Ergonomics Society 37th Annual Meeting, Seattle, 1993 (Vellala, C., Aghazadeh, F., Pine, J. C. and Marx, B.).
13. "An Ergonomic Study of VDT Workstations in Office." Abstract appeared in the proceedings of the American Industrial Hygiene Conference, New Orleans, LA, May 15-21 1993, (Lu, C., Caylor, J., and Aghazadeh, F.).
  14. "Anthropometry of Jamaican Agricultural Workers." Proceedings of the 11th Congress of the International Ergonomics Assoc., Paris, France, July 1991. (Lamey, J., Aghazadeh, F., and Nye, J.).
  15. "An Investigation of Different Modes of Load Carrying." Proceedings of the 11th Congress of the International Ergonomics Assoc., Paris, France, July 1991. (Aghazadeh, F., Lee, K.S., Waikar, A.M., and Lu, H.).
  16. "Ergonomics Source Book." A book review, International Journal of Industrial Ergonomics, Vol. 3, No. 3, 1989 (Aghazadeh, F.).
  17. "Handbook of Human Factors." A book review, American Industrial Hygiene Journal, Vol. 49, No. 7, June 1988 (Aghazadeh, F.).
  18. "Investigation of Lower Back Muscle Forces in Different Postures." Abstract appeared in the Proceedings of the AIHA Annual Conference, Montreal, Canada, May 31-June 5, 1987 (Lee, K.S., Aghazadeh, F., and Waikar, A.M.).
  19. "Testing of Strength in a Suspended Position." Abstract appeared in the Proceedings of the AIHA Annual Conference, Montreal, Canada, May 31-June 5, 1987 (Aghazadeh, F., Latif, N.T., Lee, K.S., and Waikar, A.M.).
  20. "Problem Definition and Potential Analytic Techniques for the Evaluation of Volitional Movements in a 3-Degree-of-Freedom Motion Simulator." Final Report Naval Biodynamics Laboratory, Contract No. N00205-86-M-L859, 1986, (Aghazadeh, F.).
  21. "Validation of Maximal and Submaximal Lifting Exertions." Abstract appeared in the Proceedings of the AIHA Annual Conference, Dallas, Texas, May 18-23, 1986 (Lee, K., Waikar, A.M., and Aghazadeh, F.).
  22. "Hand Tool Injuries." Ergonomics Division IIE Newsletter, Vol. 21, No. 1, 1986, (Mital, A., and Aghazadeh, F.). Was also published in the Shenandoah News, September-October 1986 issue.
  23. "Ergonomic Data for Equipment Design." A book review, Journal of the American Society for Information Science, Vol. 37, No. 3, 1985, (Aghazadeh, F.).
  24. "Work Related Hand Tool Injuries." Abstract appeared in the Proceedings of the AIHA Annual Conference, Las Vegas, Nevada, May 19-24, 1985, (Aghazadeh, F., and Mital, A.).

25. "Estimation of Dynamic Strength." Abstract appeared in the Proceedings of the AIHA Annual Conference, Detroit, Michigan, May 21-25, 1984 (Mital, A., Ramanan. S., and Aghazadeh, F.).
26. "Determination of Load Handling Capability Based on Dynamic Strength." Abstract appeared in the Proceedings of the AIHA Annual Conference, Detroit, Michigan, May 21-25, 1984 (Aghazadeh, F., Ayoub, M.M. and Smith, J.L.).
27. "Simulated Dynamic Lifting Strength Models for Manual Lifting." Ph.D., Dissertation, Texas Tech University, Lubbock, Texas, 1982. Also published by the University Microfilms International, Ann Arbor, Michigan, 1983 (Aghazadeh, F.).
28. "Development of a Female Atlas of Strengths." Final Report, McDonnell- Douglas Aircraft, Contract No. AS-20501-C, 1982 (Ayoub, M.M., Gidcumb, C.F., Reeder, M.J., Hafez, H.A., Beshir, M.Y., Aghazadeh, F., and Bethea, N.J.).
29. "Development of an Atlas of Strengths and Establishment of an Appropriate Model Structure." Final Report Andrulic Research Corporation, Contract No. 00123-79-C-0159, 1981 (Ayoub, M.M., Gidcumb, C.F., Reeder, M.J., Hafez, H.A., Beshir, M.Y., Aghazadeh, F., and Bethea, N.J.).
30. "Lifting Capacity as a Function of Operator and Task Variables." Master's Thesis, Texas Tech University, Lubbock, Texas, 1974, (Aghazadeh, F.).

#### **V. Participation at professional meetings:**

Human Factors and Ergonomics Society 58th Annual Meeting. October 27 – 31, 2014, Chicago, Illinois,

The 5th International Conference on Applied Human Factors and Ergonomics (AHFE 2014), July 19-23, 2014, Krakow, Poland. Session Chair

International Annual 57<sup>th</sup> Meeting of the Human Factors and Ergonomics Society . September 30-October 4, 2013, San Diego, California

XXVth Annual International Occupational Ergonomics and Safety Conference. June 6-7, 2013, Atlanta, GA, USA

Institute of Industrial Engineers Annual Conference. May, 2013, San Juan Puerto Rico.

Human Factors and Ergonomics Society 56th Annual Meeting. October 22 – 26, 2012, Boston, MA.

IEA 2012: 18th World Congress on Ergonomics, February 12-16, 2012 Recife, Brazil.

Institute of Industrial Engineers Annual Conference. June 5-9, 2010, Cancun, Mexico.

IEA Triennial Congress. August 9-14, 2009, Beijing, China, **Session Chair**.

International Occupational Ergonomics and Safety Annual Conference. June 11-12, 2009, Dallas, USA.

International Occupational Ergonomics and Safety Annual Conference. June 12-13, 2008, Chicago, USA.

Institute of Industrial Engineers Annual Conference. May 17-21, 2008, Vancouver, Canada.

Gulf Coast Safety & Security Conference, September 19, 2007, Baton Rouge, LA.

IIE Annual Conference and Expo 2007, May 19-23, 2007, Nashville, Tenn.

XVI<sup>th</sup> Congress of the International Ergonomics Association, July 10-14, 2006.  
Maastricht, The Netherlands.

XIX International Annual Occupational Ergonomics and Safety Conference, June 26-28,  
2005, Las Vegas Nevada, **Secession Chair.**

XVIII<sup>th</sup> International Annual Occupational Ergonomics and Safety Conference, May 19-  
22, 2004, Houston, Texas, **Secession Chair.**

XV<sup>th</sup> Triennial Congress of the International Ergonomics Association, August 24-29,  
2003 Seoul, Korea, **Secession Chair.**

XVI<sup>th</sup> International Annual Occupational Ergonomics and Safety Conference, June 9-12,  
2002, Toronto, **Secession Chair.**

XIV<sup>th</sup> Triennial Congress of the International Ergonomics Association/44<sup>th</sup> Annual  
Meeting of the Human Factors and Ergonomics Society, San Diego, California,  
July 30-August 4, 2000.

Annual International Occupational Ergonomics and Safety Conference, Orlando, Florida,  
June 6-9, 1999.

Annual International Occupational Ergonomics and Safety Conference, Ann Arbor,  
Michigan, June 11-14, 1998.

Human Factors and Ergonomics Society 41<sup>st</sup> Annual Meeting, Albuquerque, New  
Mexico, October 22-26, 1997.

Annual International Occupational Ergonomics and Safety Conference, Washington,  
D.C., June 1-4, 1997.

Human Factors and Ergonomics Society 39<sup>th</sup> Annual Meeting, San Diego, California  
October 9-13, 1995.

Konz/Purswell Occupational Ergonomics Symposium, Lubbock, Texas, April 8, 1995.

Annual International Industrial Ergonomics and Safety Conference, San Antonio, Texas,  
June 8-10, 1994, **Conference Chairman.**

National Science Foundation Workshop, Cincinnati, Ohio, November 17-19, 1993,  
Invited **panelist**, “Workshop to Identify Research Needs and Establishing  
Research Priorities Pertaining to Ergonomics in Advanced Manufacturing.”

Human Factors Society 37<sup>th</sup> Annual Meeting, Seattle, Washington, October 11-15, 1993.  
**Session Chair**, “Industrial Ergonomics Potpourri.”

Human Factors Society 36<sup>th</sup> Annual Meeting, Atlanta, Georgia, October 12-16, 1992.  
**Session Chair**, “Strength and Capacity Issues.”

Annual International Industrial Ergonomics and Safety Conference, Copenhagen,  
Denmark, June 8-10, 1993. **Session Chair**, “Accident and Injury Prevention.”

Human Factors Society 34<sup>th</sup> Annual Meeting, Orlando, Florida, October 8-12, 1990.  
**Session Chair**, “Case Studies in Ergonomics.”

Annual International Industrial Ergonomics and Safety Conference, Montreal, Canada,  
June 10-13, 1990. **Session Chair**, “Posture and Back Injury.”

Human Factors Society 33<sup>rd</sup> Annual Meeting, Denver, Colorado, October 16-20, 1989.  
**Session Chair**, “Manual Materials Handling.”

Human Factors Society 32<sup>nd</sup> Annual Meeting, Anaheim, Calif., October 24-28, 1988.  
**Industrial Ergonomics T.G. Chair and Session Chair.**

Xth Congress of the International Ergonomics Association, Sydney, Australia, August 1988.

Annual International Industrial Ergonomics and Safety Conference, New Orleans, Louisiana, June 8-10, 1988, **Conference Chairman.**

Human Factors Society 31st Annual Meeting, New York, N.Y., October 19-23, 1987.

IXth International Conference on Production Research, Cincinnati, Ohio, August 17-20, 1987.

Annual International Industrial Ergonomics and Safety Conference, Miami, Florida, June 12, 1987. **Session Chairman**, “Manual Handling Applications.”

American Industrial Hygiene Conference, Montreal, Canada, May 31 - June 5, 1987. **Session Chairman**, “Ergonomics: Occupational Biomechanics.”

Human Factors Society 30th Annual Meeting, Dayton, Ohio, September - October 1986.

Annual International Industrial Ergonomics and Safety Conference, Louisville, Kentucky, June 12-14, 1986. **Session Chairman**, “Visual Aspects of Work.”

American Industrial Hygiene Conference, Dallas, Texas, May 18-23, 1986. **Session Chairman**, “Ergonomics: Musculoskeletal Injuries.”

International Industrial Engineering Conference, Dallas Texas, May 11-15, 1986. **Session Moderator**, “Design of Quality Assurance Programs for Data Base Management Systems.”

Human Factors Society 29th Annual Meeting, Baltimore, Md, September – October 1985. **Session Chairman**, “Industrial Ergonomics Potpourri.”

Ninth Congress of the International Ergonomics Association, Bournemouth, England, September 1985.

American Industrial Hygiene Conference, Las Vegas Nevada, May, 1985.

Annual International Industrial Engineering Conference, Los Angeles, Calif., May 19-23, 1985.

Human Factors Society 28th Annual Meeting, San Antonio, TX, October 1984.

First Mid-Central Ergonomics/Human Factors Conference, Cincinnati, OH, 1984. **Session Chairman**, “Manual Materials Handling.” American Industrial Hygiene Conference, Detroit, Mich., May 1984.

Human Factors Society 27th Annual Meeting, Norfolk, VA, October 1983.

The Industrial Hygiene Conference, Philadelphia, PA, May 1983.

Brouha Work Physiology Symposium, Lubbock, TX, September 1982.

Cinematography and High Speed Photography, San Diego, CA., August 1981.

Industrial Hygiene Conference, Houston, TX, May, 1980.

### **Presentations:**

1. “Analysis of accidents in trailer towing.” the 5th International Conference on Applied Human Factors and Ergonomics (AHFE 2014), July 19-23, 2014, Krakow, Poland.
2. “The investigation of valve operators’ torque production capabilities at different handwheel heights and angles.” 57<sup>th</sup> International Annual Meeting of the Human Factors and Ergonomics Society. September 30-October 4, 2013, San Diego, California

3. "Electromyography analysis: Comparison of maximum voluntary contraction methods for anterior deltoid and trapezius muscles. In proceedings of the XXVth Annual International Occupational Ergonomics and Safety Conference. June 6-7, 2013, Atlanta, GA, USA.
4. "Valve operation: Evaluation of handwheel actuation techniques in terms of muscle loading, perceived comfort, and efficiency. Human Factors and Ergonomics Society 56th Annual Meeting. October 22 – 26, 2012, Boston, MA.
5. "A study of the kinematics of ingress and egress of upright and recumbent seats" Presented at the IEA 2012: 18th World Congress on Ergonomics, February 12-16, 2012 Recife, Brazil.
6. "Modified track shoes and their effect on the EMG activity of calf muscles" Presented at the IEA 2012: 18th World Congress on Ergonomics, February 12-16, 2012 Recife, Brazil.
7. "Handwheel valve operation: assessment of four opening methods in terms of muscle loading, perceived comfort, and efficiency" Presented at the IEA 2012: 18th World Congress on Ergonomics, February 12-16, 2012 Recife, Brazil.
8. "Biomechanical Analysis of Dynamic Overhead Lifting." Presented at Annual IIE conference. June 5-9, 2010, Cancun, Mexico.
9. "Loading of cervical spine during isometric overhead exertions." Presented at Annual IIE conference. June 5-9, 2010, Cancun, Mexico.
10. "Effect of Noise Emitted by Forestry Equipment on Workers' Hearing Capacity." Presented at the IEA Triennial Congress. August 9-14, 2009, Beijing, China.
11. "Evaluation of Risk Factors for Cervical Spine Disorders Due To Manual Material Handling Tasks. Presented at the IEA Triennial Congress. August 9-14, 2009, Beijing, China.
12. "Loading of the Cervical Spine During Isometric Lifting Tasks." Presented at the International Occupational Ergonomics and Safety Annual Conference. June 11-12, 2009, Dallas, USA.
13. "Understanding the Contribution of Neck Muscles During Isometric Lifting Tasks." Paper presented at the International Occupational Ergonomics and Safety Annual Conference. June 12-13, 2008, Chicago, USA.
14. "Evaluation of neck disorders among the construction workers: a laboratory study using electromyography. Paper presented at the Institute of Industrial Engineers Annual Conference. May 17-21, 2008, Vancouver, Canada.

15. "Productivity Improvements & Ergonomic Intervention in Construction." Presented at the Gulf Coast Safety & Security Conference, September 19, 2007, Baton Rouge, LA.
16. "Productivity trends and improvement at construction projects" Presented at the IIE Annual Conference and Expo 2007, May 19-23, 2007, Nashville, Tenn.
17. "Shoulder Muscle Loading During Overhead Work" Presented at the 16th Congress of the International Ergonomics Association, July 10-14, 2006. Maastricht, The Netherlands.
18. "Dynamic Strength Using Multipurpose Multiaxial Isokinetic Dynamometer" Presented at the 16th Congress of the International Ergonomics Association, July 10-14, 2006. Maastricht, The Netherlands.
19. "Assessment of NASA-STD-3000 Man-System Integration Standards (MSIS) Anthropometry/Biomechanics/Strength Requirements for the Orbital Space Plane (OSP)" Presented at the XIX International Annual Occupational Ergonomics and Safety Conference, June 27-29 2005, Las Vegas, Nevada.
20. "Musculoskeletal Disorders In Dentistry: An Epidemiological Study" Presented at the XIX International Annual Occupational Ergonomics and Safety Conference, June 27-29 2005, Las Vegas, Nevada.
21. "Postural Changes Caused by Back Belt." Presented at the XVIII International Annual Occupational Ergonomics and Safety Conference, May 19-22, 2004, Houston, Texas.
22. "Observation of Driver Response Patterns in Car Following." Presented at the XVIII International Annual Occupational Ergonomics and Safety Conference, May 19-22, 2004, Houston, Texas.
23. "Fatigue Effects on Manual Lifting Factors." Presented at the XVIII International Annual Occupational Ergonomics and Safety Conference, May 19-22, 2004, Houston, Texas.
24. "Acquisition of Flying Skills and Position of Flight Control Stick." Presented at the XVth Triennial Congress of the International Ergonomics Association, August 24-29, 2003 Seoul, Korea.
25. "Cigarette Warning Labels: A Survey." Presented at the XVth Triennial Congress of the International Ergonomics Association, August 24-29, 2003 Seoul, Korea.
26. "Removal of Child From Carseat: *Investigation of Child Removal Posture*. Presented at the XVI International Annual Occupational Ergonomics and Safety Conference, Toronto, Canada June 9-12, 2002.
27. "Biomechanical Testing of the Spine." Presented at the XVI International Annual Occupational Ergonomics and Safety Conference, Toronto, Canada June 9-12, 2002.



28. "Stair Riser Height and the Impact Force." Presented at the Annual International Occupational Ergonomics and Safety Conference 2001, Washington, DC, June 6-9, 2001
29. "A Strategy to Design a Work-Rest Schedule for VDT Operators Performing Data Entry and Mental Tasks." Presented at the XIVth Triennial Congress of the International Ergonomics Association/44th Annual Meeting of the Human Factors and Ergonomics Society, San Diego, California, July 30-August 4, 2000.
30. "Introduction to Industrial Ergonomics." Presented at the 5<sup>th</sup> Annual River City Occupational Safety and Health Conference and Exposition, Baton Rouge, LA. September 9, 1999.
31. "Occupational Injury/Illness Trends in Louisiana Industry." Presented at the Annual International Occupational Ergonomics and Safety Conference 1999, Orlando, Florida, June 6-9, 1999.
32. "Determining an Effective Work-Rest Schedule for Data Entry Operators." Presented at the Annual International Occupational Ergonomics and Safety Conference '98, Ann Arbor, Mich., June 11-14, 1998.
33. "Static and Dynamic Strengths of Males and Females in Seating and Standing Postures." Presented at the Annual International Occupational Ergonomics and Safety Conference '97, Washington, D.C., June 1-4, 1997.
34. "Ergonomics Education in USA." **Invited Lecture** presented at the HF Seminar at Bandung Institute of Technology, Bandung, Indonesia, March 26, 1997.
35. "The Efficacy of Using a Taxonomy Approach in Prediction Performance of Navy jobs." **Invited lecture** presented at the Occupational Ergonomics Symposium, Lubbock, Texas, April 8, 1995.
36. "Interaction of Mental and Physical Load." Presented at the Annual Industrial Ergonomics and Safety Conference, San Antonio, Texas, June 6-10, 1994.
37. "Determination of the Maximum Acceptable Weights of Lifting and Lowering using the Direct Estimation Method." Presented at the Human Factors and Ergonomics Society 37th Annual Meeting, Seattle, Washington, October 11-15, 1993.
38. "Industrial Robot Use: Survey Results and Hazard Analysis." Presented at the Human Factors and Ergonomics Society 37th Annual Meeting, Seattle, Washington, October 11-15, 1993.
39. "VDT Positions: Effect on Performance and comfort." Presented at the Human Factors and Ergonomics Society 37th Annual Meeting, Seattle, Washington, October 11-15, 1993.

40. "VDT in Offices: A Field Study." Presented at the 5th International Conference on Human Computer-Interaction, Orlando, Florida, August 8-13, 1993.
41. "The Effect of High Heels on Lifting Capacity." Presented at the International Industrial Ergonomics & Safety Conference, June 8-10, 1993, Copenhagen, Denmark.
42. "Relationship Between Alcohol Consumption, Mental Load, and Physical Capacity." Presented at the M.M. Ayoub Occupational Ergonomics Symposium, April 16-17, 1993, Lubbock, Texas.
43. "Identifying Research Needs and Establishing Research Priorities Pertaining to Ergonomics in Advanced Manufacturing Technology." **Invited panelist** at the National Science Foundation Workshop, Nov. 17-19, 1993, Cincinnati, Ohio.
44. "Application of Ergonomics in Industry." **Invited lecture** presented at the American Industrial Hygiene Association, Gulf Coast Section Meeting, Houston, Texas, November 19, 1992.
45. "Evaluation of Infogrip Chordic Keyboard." Presented at the Human Factors Society 36th Annual Meeting, Atlanta, Georgia, October 8-12, 1992.
46. "Utilization of Direct Estimation Method to Predict the Maximum Acceptable Weight of Symmetrical and Asymmetrical Lift." Presented at the Human Factors Society 36th Annual Meeting, Atlanta, Georgia, October 8-12, 1992.
47. "Anthropometry of Jamaican Agricultural Workers." Presented at the 11th Congress of the International Ergonomics Assoc., Paris, France, July 1991 and at American Society of Agricultural Engineers 1990 Winter Meeting in Chicago, Ill.
48. "An Investigation of Different Modes of Load Carrying." Presented at the 11th Congress of the International Ergonomics Assoc., Paris, France, July 1991.
49. "Dealing with the Experts: Product Safety, Human Factors Engineering." **Invited lecture** presented at Summer School for Judges, May 1991, Destin, Florida.
50. "Maximum Acceptable Weight Using different Carrying Methods." Presented at the International Industrial Ergonomics & Safety Conference, Montreal, Canada, June 10-13, 1990.
51. "Back Problems Affecting Preschool Special Education Staff." Presented at the International Industrial Ergonomics & Safety Conference, Montreal, Canada, June 10-13, 1990.
52. "Undergraduate and Graduate Courses in Industrial Ergonomics, Industrial Human Factors, and Industrial Safety: Where are We Today and where do we Need to Be in the

Future?” **Invited panelist** at the Human Factors Society 32nd Annual Meeting, Anaheim, Calif., October 24-28, 1988.

53. “Utilization of Direct Estimation Method to Determine the Effects of Task Variables on the Capacity to Lift Loads.” Presented at the Human Factors Society 32nd Annual Meeting, Anaheim, Calif., October 24-28, 1988.
54. “Strength of Upper Body in a Suspended Position.” Presented at the 10th Congress of the International Ergonomics Assoc., Sydney, Australia, August 1-5, 1988.
55. “Ergonomically Designed Chemical Plant Control Room.” Presented at the Annual International Industrial Ergonomics and Safety Conference, New Orleans, LA, June 7-10, 1988.
56. “An Introduction to Ergonomics.” A seminar given at the 1988 EIS Annual Meeting, New Orleans, LA.
57. “Ergonomics and You.” Presented at the February 18, 1988 meeting of the American Association of University Women.
58. “Ergonomics for Safety Professionals.” A seminar given at the LSU National Industrial Safety Institute, January 29, 1988.
59. “Hand and Handtool Related Work Injuries.” Presented at the IXth International Conference on Production Research, Cincinnati, Ohio, August 17-20, 1987.
60. “Safety Problems in the Oil and Gas Extracting Industry.” Presented at the Annual International Industrial Ergonomics and Safety Conference, Miami, Florida, June 9-12, 1987.
61. “Testing of Strength in a Suspended Position.” Presented at the American Industrial Hygiene Conference, Montreal, Canada, May 31-June 5, 1987.
62. “Determination of the Optimal Location of Ripcord Handles in Parachutes.” Presented at the Human Factors Society 30th Annual Meeting, Dayton, Ohio, September 29 - October 3, 1986.
63. “Modeling of Decision Making Behavior of Inspectors.” Presented at the Annual International Industrial Ergonomics and Safety Conference, Louisville, Kentucky, June 12-14, 1986.
64. “A Decision Theoretic Approach to Evaluating Imperfect Inspectors.” Presented at the 1986 International Industrial Engineering Conference, Dallas, Texas, May 11-14, 1986.

65. "An Evaluation of Two Methods for Assessment of MMH Activities." Presented at the Human Factors Society 29th Annual Meeting, Baltimore, Maryland, September 29-October 3, 1985.
66. "A Review of Hand Tool Injuries." Presented at the Ninth Congress of the International Ergonomics Association, Bournemouth, England, September 2-6, 1985.
67. "Effect of Gender on Physical Work Capacity and Strength." Presented at the Second Mid-Central Ergonomics/Human Factors Conference, West Lafayette, Indiana, June 13-15, 1984.
68. "Work-Related Hand Tool Injuries." Presented at the American Industrial Hygiene Conference, Las Vegas, Nevada, May 19-24, 1985.
69. "Prediction Models for Manual Handling of Bags." Presented at the 1st Mid-Central Ergonomics/Human Factors Conference, Cincinnati, Ohio, April 12-13, 1984.
70. "Estimation of Dynamic Strength." Presented at the 24th American Industrial Hygiene Conference, Detroit, Michigan, May 21-25, 1984.
71. "Determination of Load Handling Capability Based on Dynamic Strength." Presented at the 24th American Industrial Hygiene Conference, Detroit, Michigan, May 21-25, 1984.
1. "Dynamic Strength Testing Using the CYBEX." Presented at the Brouha Work Physiology Symposium, Lubbock, Texas, September 1982.

**VI. Other scholarly or creative activities (professional organizations, administrative duties, etc.):**

**A. Professional society membership:**

Alpha Pi Mu, Industrial Engineering Honor Society  
 American Industrial Hygiene Association (member of the Ergonomics Committee)  
 American Conference of Governmental Industrial Hygienists  
 Institute of Ergonomics and Human Factors (Ergonomics Society)  
 Human Factors and Ergonomics Society  
 Institute of Industrial Engineers (senior member and member of the Ergonomics Division)  
 International Society for Occupational Ergonomics and Safety (Founding member)  
 Society of Automotive Engineers  
 World Safety Organization

**A1. Student Organizations Advised**

Alpha Phi Mu

IIE  
Alternate Spring Break  
PAL

**B. Professional registration:**

Board Certified Professional Ergonomist #302  
Professional Engineer, State of Texas #55899  
Professional Member of the Ergonomics Society  
Certified Occupational Safety Specialist  
Certified Safety Executive, World Safety Organization

**C. University related activities:**

Search Committee, Chairman (I.E. program., Louisiana State University), 2014-2015.  
Chair, College of Engineering P&T Ad Hoc Committee, 2013-2014.  
Chair, College of Engineering Policy Committee, 2013-2015.  
Chair, College of Engineering P&T Ad Hoc Committee, 2012-2013.  
Chair, College of Engineering Policy Committee, 2012-2013.  
Chair, College of Engineering Professorship Award Committee, 2012-2013.  
Chair, Industrial Engineering P&T Committee, 2012-2013.  
Chair, Construction Management P&T Committee, 2012-2013.  
Member, LSU Building Facilities Naming Committee, 2012-  
Member, University Lecture Series (Dr. Robert Proctor), 2012.  
Member, Louisiana Workforce Safety Task Force, 2012-  
Chair, College of Engineering Policy Committee, 2011-2013.  
Chair, College of Engineering Professorship Awards Committee, 2011.  
Member, LSU **Chancellor Realignment** Task Force, 2010-11.  
Member, College of Engineering Awards Committee, 2010.  
Chair, College of Engineering P&T Ad Hoc Committee, 2009-10.  
Member, **College of Engineering Strategic Planning Task force**, 2009-10.  
Member, Industrial Engineering Strategic Planning Committee, 2009-10.  
Member, Construction Management Strategic Planning Committee, 2009-10.  
Member, College of Engineering Strategic Planning Council, 2009-10.  
Member, College of Engineering Policy Committee, 2008-2009.  
Elected Engineering Senator (Louisiana State University) 2007-2010.  
Search Committee member for CMIE Faculty (CMIE Dept., Louisiana State Univ.),  
2006.  
Advisory Council Member for Communication across the Curriculum, 2006-2009  
Member, College of Engineering Policy Committee, 2005-2007  
Graduate Program Coordinator (I.E. Dept., Louisiana State University), 2002-  
Planning Document Committee Chair (I.E. Dept., Louisiana State University), 2001-  
2002.  
Search Committee, IE Faculty (I.E. Dept., Louisiana State University), 2001-2002.  
University Committee member on Collective Bargaining member (LSU) 2001-2002.

Search Committee member for IE Chairman (I.E. Dept., Louisiana State University), 2001.

Engineering Senator (Louisiana State University) 1999-2001.

Graduate Program Coordinator (I.E. Dept., Louisiana State University), 1994-98.

Committee on Committees member (Louisiana State University) 1993-1996.

Faculty Senate Committee on Committees member (Louisiana State University) 1993-96.

Search Committee, Chairman (I.E. Dept., Louisiana State University), 1993-94.

Engineering Senator (Louisiana State University) 1991-92.

Student Recruiting and Retention Committee (Louisiana State University) 1991-

Search Committee member for Asst. Director of ISO (Louisiana State University), 1991-92.

Search Committee, Chairman (I.E. Dept., Louisiana State University), 1991-1992.

Member of the Graduate Faculty Council (College of Engineering, Louisiana State University) 1988-91.

Full member of Graduate Faculty (I.E. Dept., Louisiana State University) 1989-

Graduate Program Coordinator (I.E. Dept., Louisiana State University), 1988-1990.

College of Engineering Safety Committee member, 1988.

Chairman Search Committee member (I.E. Dept, Louisiana State University), 1988-89.

Founding member and member of the Advisory Board, National Industrial Safety Institute (Louisiana State University) 1987-

Chairman, Industrial Engineering Curriculum Committee (IE Dept., LSU) 1987-9).

Academic Matters Committee (College of Engineering, Louisiana State University), 1986-1988.

College Recruiting Committee (College of Engineering, Louisiana State University), 1985-1986.

Coordinator, undergraduate students recruiting (I.E. Dept., Louisiana State University), 1985-1987.

Participation in the REHAMS Phase I program (I.E. Dept., Louisiana State University), Summer 1985.

ABET Visit Committee (I.E. Dept., Louisiana State University), 1984-1985.

Faculty Selection Committee (I.E. Dept., Louisiana State University), 1985.

Director of Human Factors Engineering Laboratory (I.E. Dept., Louisiana State University) 1984-.

Associate member of Graduate Faculty (I.E. Dept., Louisiana State University) 1984-1989.

Laboratory Development Committee (I.E. Dept., University of Alabama), 1983-1984.

Academic Affairs Committee (I.E. Dept., University of Alabama), 1983-1984.

Faculty Council (College of Engineering, University of Alabama), 1983-1984.

Member of Graduate Faculty (I.E. Dept., University of Alabama), 1983-1984.

Faculty Search Committee (College of Engineering, University of Alabama), 1983-1984.

Research Committee (College of Engineering, University of Alabama), 1983-1984.

#### **D. Professional activities:**

**Board Member, the 6th International Conference on Applied Human Factors and Ergonomics (AHFE 2015), July 26-30, 2015, Las Vegas**

**Elected Board Member**, International Society for Occupational Ergonomics and Safety, 2013-2015.

Board Member, the 5th International Conference on Applied Human Factors and Ergonomics (AHFE 2014), July 19-23, 2014, Krakow, Poland.

**Elected Board Member**, International Society for Occupational Ergonomics and Safety, 2011-2012.

International Advisory Committee Member, the XXIIIrd Annual International Occupational Ergonomics and Safety Conference June 9-10, 2011, Baltimore, Maryland, USA.

Physical Ergonomics Board Member, the 4th International Conference on Applied Human Factors and Ergonomics (AHFE 2012), July 21-25, 2012, San Francisco, Ca.

Board Member, the 3rd International Conference on Applied Human Factor and Ergonomics (AHFE), Miami, Florida, July 17-20, 2010.

International Advisory Committee Member, the XXIst Annual International Occupational Ergonomics and Safety Conference 2009, Dallas, Texas, USA, June 11-12, 2009.

**National Board Member**, the International Society for Occupational Ergonomics and Safety, 2000-2003.

**Elected Board Member**, International Society for Occupational Ergonomics and Safety, 1999-2002.

**President**, the International Society for Occupational Ergonomics and Safety, 1994-1995.

**International Conference Chairman**, Annual International Industrial Ergonomics and Safety Conference, San Antonio, Texas, June 1994.

Treasurer, the International Foundation for Industrial Ergonomics and Safety Research, 1992-1993.

Member, Industrial Ergonomics Technical Group (International Ergonomics Association Science and Technology Comm.) 1991-1994.

Treasurer, the International Foundation for Industrial Ergonomics and Safety Research, 1989-1991.

President, IIE Baton Rouge Chapter, 1988-89.

**International Conference Chairman**, Annual International Industrial Ergonomic and Safety Conference, New Orleans, La., June 1988.

**National Chairperson**, Industrial Ergonomics Technical Group (Human Factors Society), 1987-1988.

Treasurer, IIE Baton Rouge Chapter, 1987-1988.

Program Chairman, Fall Industrial Engineering Conference, (Ergonomics Division), 1987.

**National Chairman**, Ergonomics Committee (American Industrial Hygiene Association) 1986-1987.

Pride Award Chair, Ergonomics Division (Institute of Industrial Engineers), 1986-1987.

Founding member, the International Foundation for Industrial Ergonomics and Safety Research, 1986-

Member of the Program Committee for the Annual International Industrial Ergonomics and Safety Conference, 1985-1987.

**National Program Chairperson**, Industrial Ergonomics Technical Group (Human Factors Society), 1985-1986.

**National Program Chairman**, Ergonomics Committee (American Industrial Hygiene Association), 1985-1986.

Assistant Program Chairman, Ergonomics Committee (American Industrial Hygiene Association), 1984-1985.

Judge for Georgia Gulf's "Champions of Science" and Louisiana Science and Engineering Fair competition.

#### **E. Editorial/review responsibilities:**

**Member of the Editorial Board**, International Journal of Industrial Engineering, 2004-.

**Information and Book Editor**, Occupational Ergonomics, 2003-

**Associate Editor**, Occupational Ergonomics, 1996-

**Editor**, Industrial Ergonomics Technical Group Newsletter (Human Factors Society), 1987-1988.

**American Editor**, Ergonomics sa, 1987-1988.

**Member of the Editorial Board**, Forensic Report, 1987-

**Editor**, IIE News (Ergonomics Division), 1986-1987.

**Member of the Editorial Board**, International Journal of Industrial Ergonomics, 1985-1992.

**Associate Editor**, IIE News (Ergonomics Division), 1985-1986.

Reviewer (Journal of the Human Factors Society)

Reviewer (The American Industrial Hygiene Association Journal)

Reviewer (Journal of the American Society for Information Science)

Reviewer (International Journal of Industrial Ergonomics)

Reviewer (Forensic Report)

Reviewer (Ergonomics SA)

Reviewer (Applied Ergonomics)

International Journal of Production Research

**Area Editor**, International Journal of Industrial Engineering

Book reviewer (John Wiley & Sons)

Research Grant Proposal Reviewer (National Science and Engineering Council of Canada)

Reviewer (Computers & Industrial Engineering)

#### **F. Graduate Committees**

- Chaired 11, and chairing 1 Ph.D. committees; chaired 45 (31 thesis and 13 projects) M.S. committees.
- Has also served as a member on 34 Departmental and University M.S. and Ph.D. committees, and has supervised 14 senior projects.



**Note:** *Industrial Engineering Program at LSU does not offer a Ph.D. degree. However, it participates in the Interdisciplinary Program in Engineering Science in the College of Engineering.*

**Dissertations Chaired:**

1. Saif Al-Qaisi, May 2013, "A Static and Dynamic Study of Ergonomic-Related Factors in Handwheel-Valve Operation."
2. Ashish D. Nimbarte, 2009, "Modeling the Risk Factors Associated with the Neck Disorders During Manual Materials Handling Tasks."
3. Larry Nabatilan, 2007, "Modeling of Attentional and Perceptual Demands on Driving Performance: An Eye Movement Tracking Approach".
4. Ashok Darisipudi, 2006, "Towards a Generalized Team Task Complexity Model," Co-chair with Craig Harvey.
5. Guntulu Selen Hatipkarasulu, 2006, "Loading and Recovery Behavior of the Human Lumbar Spine under Static Flexion." *Economic Development Fellowship Awardee.*
6. Shahriyar Mojahed, 2005, "A Project Improvement System for Effective Management of Construction Projects."
7. Anthony D'Wayne Banks, 2003, "Progressive Fatigue Effects on Manual Lifting Factors." *Dean's Fellow*
8. Bo-Keun Cho, 2002, "Impact of Subject Related Factors and Position of Flight Control Stick on Acquisition of Simulated Flying Skills Using a Flight Simulator."
9. Rana Balci, 1999, "Design of Work-Rest Schedules for VDT Operators."
10. Julio A. Melendez, 1996, "A Methodology to Assess Safety Conditions in Louisiana Agriscience Laboratories."
11. Hongzheng Lu, 1994, "Modeling of VDT Workstation System Risk Factors."

**Theses Chaired:**

1. Amir Bahador Bahmani Bahman Beiglou, Summer 2013, "Psychophysical Estimation of Optimum Resting Time for Manual Lifting Task."
2. Francis W. Hutchinson, August 2013 2012 "Testing and Evaluation of Methods to Open Manual Gate Valves Using Electromyography of Core Muscles."
3. Marlon A. Greensword, Spring 2010, "Biomechanical evaluation of modified track shoes."
4. Mohamed W. Mokrani, Fall 2009, "Neck Muscles Activity and Upper Body Extremity Angles in Dynamic Overhead Lifting."
5. Antonio A. Fonseca, Summer 2009, "Hearing Assessment of Forest Loggers."
6. Bharat Kumar Bhallam Venkata, 2006, "Effect of Overhead Drilling Support on Muscular Activity of Shoulder."
7. Sai Chaitanya Reddy Bogolu, 2006, "Effect of Repetitions on Static and Dynamic Strength."

8. Maryam Amin, 2006, "Influence of Circadian Rhythm on the Physical and Mental Performance."
9. Ashish D. Nimbarte, 2005, "Effect of Back Belt on Inter-Joint Coordination and Postural Index Values Under Selected Manual Lifting Technique."
10. Frank Maurice Pitts, 2005, "Analysis of Musculoskeletal Disorders in Dentistry."
11. Milton Maada-Gomoh Saidu, 2004, "Effects Of Automobile Seating Posture On Trunk Muscle Activity."
12. Nageswara Rao Uppu, 2004, "Effects of Pressure Suit and Race on Functional Reach, Static, and Dynamic Strength."
13. Guntulu Selen Hatipkarasulu, 2002, "Viscoelastic Creep in the Lumbar Spine Associated with Static Flexion."
14. Gaby A. Kfoury, 2000, "Stair Riser Height and the Impact Force."
15. Faisal Basrai, 2000, "Design and Evaluation of Workstations for Operators with Corrective Vision."
16. Mohit Vij, 1997, "Effect of Complex Aural Stimuli On Mental Performance."
17. Keith Maurice Lapeyrouse, 1997, "An Analysis of Major Chemical Accident Reporting in the United States."
18. Hardianto Iridiastadi, 1997, "Maximum Aerobic Capacity and Physiological Fatigue Limit of Combined Manual Materials Handling Tasks."
19. Dedik S. Santoso, 1996, "Lifting Load Capacity of Indonesian Workers."
20. Albert Mitchell, 1996, "An Indoor Air Quality Compliance Plan for Non-Industrial Buildings."
21. Sukhvinder Singh, 1995, "Effect of Mental Work on Physical Task."
22. Poonam Dronamraju, 1995, "Analysis of Back Injuries in Industry: Epidemiology and Trend."
23. Chandrasekar Vellala, 1994, "Analysis of Cumulative Trauma Disorders and Other Injuries in Poultry Processing Industries in Louisiana."
24. Imran Hashmi, 1993, "An Investigation of Injuries in the Oil and Gas Field Service Industries in Louisiana."
25. Feng Chen, 1992, "Prediction of Maximum Acceptable Weight of Symmetric and Asymmetric Life Using Direct Estimation Method."
26. Johnathon Patrick Lamey, 1991, "A Study of the Static Anthropometric Measurement of Jamaican Agricultural Workers."
27. Balaviswanath Narayanaswamy, 1990, "Info Back: A database on the Relationship between Back Pain and the Risk Factors That Lead to it."
28. Robert Charles Chapleski, 1990, "A Hazard Analysis for the Selection of Robotic Safety Sensors."
29. Robert Bruce Combs, 1987, "Human Factors Analysis and Design of Chemical Plant Control Rooms."
30. Numair T. Latif, 1986, "Determination of Optimal Locations for Parachute Ripcord Handle."
31. Kelvin W. Richardson, 1995, "Predicting Performance of the Close-In Weapon System Loading Operations Using the Taxonomy Approach."

## VII. Awards:

Inducted to the Texas Tech Academy of Industrial Engineering, 2011  
 Awarded the Georgia Gulf Distinguished Professorship by College of Engineering  
 Fellow, Ergonomics Society  
 Voted 2006 **Outstanding IE Professor of the year**  
 Faculty Fellow at NASA Johnson Space Center, summer 2003 & 2004  
 Recipient of the 1997 “Distinguished Achievement Award,” International Society for  
 Occupational Ergonomics and Safety  
 Recipient of the 1987 Ralph R. Teetor Educational Award from SAE, recognition as one  
 of the top engineering educators in the U.S.  
 Listed in the Who's Who in the South and Southwest, 21<sup>st</sup> – 23<sup>rd</sup> Eds.  
 Listed in the Who's Who in Finance and Industry, 26<sup>th</sup> Ed.  
 Listed in the Who's Who in the World, 10<sup>th</sup> Ed.  
 Listed in the Who's Who in the Safety Profession, 1<sup>st</sup> Ed.  
 Who's Who in Engineering Education.  
 Listed in the Who's Who in American Education, 3<sup>rd</sup> & 4<sup>th</sup> Eds.  
 Listed in the Who's Who of Emerging Leaders in American, 3<sup>rd</sup> Ed.  
 Listed in the Who's Who in Science and Engineering 2<sup>nd</sup> Ed.  
 Listed in the Who's Who in America, 48<sup>th</sup> & 49<sup>th</sup> Eds.

#### **VIII. Grants and contracts activities:**

##### **Funded projects:**

“Effect of Changing Driving Conditions on Driver Behavior Towards Design of a Safe  
 and Efficient Traffic System: *Gulf Coast Center for Evacuation and Transportation  
 Resiliency (CETR)*, June 2012 – December 2013, \$42,000  
 “Determination of Functional Human Strength, and Effect of Fatigue on Strength Using  
 Multiaxial Isokinetic Dynamometer.” National Aeronautics and Space  
 Administration, 2004-2006 (extended), Principal Investigator: \$24,604.  
 “Integration of updated Anthropometry/Biomechanics/Strength Standards into NASA-  
 STD-3000 Man-System (MSIS).” National Aeronautics and Space  
 Administration, 2003-2004, Principal Investigator: \$15,004.  
 ASSE Summer Faculty Fellowship to work the at NASA Johnson Space Center  
 Summer 2003 and 2004.  
 “Analysis of Procedures and Work Content for Incumbent Worker Training Program.”  
 Department of Labor, 2003-2004, Principal Investigator: \$60,638.00. Withdrawn  
 by the funding agency due to a change in administration.  
 “Usability Center for Technology Innovative Industries in Louisiana.” LESQF, 2003-  
 2004, Co-Principal Investigator: \$44,000.00.  
 “A Task Analysis Procedure for Louisiana Department of Labor.” Department of Labor,  
 2003, Principal Investigator: \$9,819.00.  
 “Analysis of User Waiting Costs for Construction Projects on Louisiana’s Interstate  
 Highway System.” LTRC, 2001-2002, Principal Investigator: \$57,376.00.  
 “Enhancement of LSU Biomechanics and Safety Laboratories.” LEQSF, 2000, Co-  
 Principal Investigator: \$104,400.00.

Grant from Albermarle Corporation to evaluate and analyze workstations, \$2000.00, Phase II, Spring 1999.

Grant from Albermarle Corporation to evaluate and analyze workstations, \$2000.00, Phase I, Fall 1998.

Equipment grant from Nova Solutions to study the look-up/down display systems \$1500.00, Spring 1998.

Travel grant to Indonesia to give a seminar, Spring 1997, \$3000.00.

Equipment grant to test the new version of Mannequin. Biomechanics Corporation of America, Fall 1995, \$3000.00.

Equipment grant to test the Chordic keyboard. Infogrip, Inc., Fall 1992, Principal Investigator: \$990.00.

Equipment grant, Ergonomic Vibration Technology, 1992, Principal Investigator: \$1500.00.

Equipment grant to evaluate the "Ergoban." Ergonomic Vibration Technology, 1992, Principal Investigator: \$700.00.

Travel expenses grant for data collection in Jamaica. 1990-1991, U.S. Department of Agriculture, \$ 770.00.

Equipment grant to evaluate the "Infogrip Baton Rouge" data entry system. Infogrip, Inc., Fall 1990, **Principal Investigator:** \$40,000.00.

Equipment grant to evaluate the ERGOMAX chair. American Ergonomics Corporation, Fall 1990, **Principal Investigator:** \$1095.00

"Study of Strength in Relation to Gender." State of Alabama, 1983, **Principal Investigator:** \$3400.00.

"Study of Musculoskeletal Injuries in Oil Related Industry." Council on Research, Louisiana State University, 1987, **Principal Investigator:** \$4000.00.

"Problem Definition and Development of Analytic Techniques for the Evaluation of Volitional Movements in a Motion Simulator. " Department of the Navy, Fall 1986, **Principal Investigator:** \$9500.00.

"An Investigation of Hand Tool Related Injuries." Texaco USA, 1985, **Principal Investigator:** \$7600.00.

#### **Other revenue generating activities:**

##### A. Conference Income:

In addition to the revenue received by LSU for the following conferences, the income from these conferences provided computing equipment and funds for conference attendance for LSU faculty and graduate students.

"International Industrial Ergonomics and Safety Conference, June 1994, San Antonio, Texas," Sponsored by LSU, **Conference Chairman and Organizer**, total revenue \$51,000.

"International Industrial Ergonomics and Safety Conference, June 1988, New Orleans, Louisiana," Sponsored by LSU, **Conference Chairman and Organizer**, total revenue \$40,000.

##### B. Graduate student support obtained:

EDA (Economic Development Awards) to support an IE Ph.D. student, \$25000/year, 2002-2004.

School support for two graduate students, 2002-2003, \$30,000

“Biomechanics and Electrophysiology of Movement” LSU Medical School support for two IE graduate students, 2000-2001, \$30,000.

“Musculoskeletal Disorders Associated with Occupational Activities” LSU Medical.

## **IX. Instructional activities:**

### **List of courses taught:**

University of Alabama:

IE 151 Manufacturing Processes

IE 203 Economic Selection

IE 351 Human Factors Engineering

IE 454 Safety Engineering

IE 501 Human System Components

IE 598 Research

Louisiana State University:

IE 2154 Industrial Engineering Design and Analysis

CM 3000 Construction Safety

IE 3201 Principles of Engineering Economy

IE 3710 Engineering Systems Analysis and Optimization

IE 4104 Motion and Time Study

IE 4461 Human Factors Engineering

IE 4462 Safety Engineering

IE 4463 Fundamentals of Industrial Hygiene Engineering

IE 4785 Engineering Cost Estimation

IE 7461 Ergonomics in Work Design

IE 7463 Industrial Hygiene Engineering

IE 7464 Work Physiology

IE 7721 Industrial Engineering Problems

IE 7899 Seminar

### **New courses and laboratories developed at Louisiana State University:**

While establishing a new Ergonomics/Human Factors Engineering program within the IE department, have developed the following courses:

IE 4461 Human Factors Engineering

IE 4462 Safety Engineering

IE 4463 Fundamentals of Industrial Hygiene Engineering

IE 4785 Engineering Cost Estimation

IE 7461 Ergonomics in Work Design  
IE 7463 Industrial Hygiene Engineering  
IE 7465 Occupational Biomechanics  
IE 7464 Work Physiology

Have also developed a new laboratory for the Ergonomics/Human Factors Engineering program, which includes Biomechanics, Work Physiology, and Occupational Safety, and Health laboratories. The development of the labs involved selection and purchasing of over 20 pieces of equipment, preparation of instructions for the acquired equipment and writing of the related laboratory manuals.

### **Off-campus Instruction**

“Safety Engineering,” AOSHA Regulations, “Industrial Hygiene Engineering,” “Engineering Economy” and “Cost Estimation” at Louisiana State University Division of Continuing Education and/or Louisiana State University at Alexandria. “Introduction to Ergonomics” at LSU Division of Continuing Education and for the Employees Information Services, “Product Safety Management and Engineering” for LSU Division of Continuing Education, “Introduction to industrial ergonomics” for the Safety Council of Louisiana.