

TOM BARTON LEAMON

EXPERIENCE

Vice President, Liberty Mutual Insurance Co.
Director, Liberty Mutual Research Institute for Safety.
Hopkinton, MA 01748

Professor and Chair
Department of Industrial Engineering
Texas Tech University, Lubbock, TX 79409-4130

Acting Dean
College of Engineering and Engineering Technology
Northern Illinois University, DeKalb, IL 60115

Professor and Chair
Department of Industrial Engineering
Northern Illinois University, DeKalb, IL 60115

Director of Graduate Programs in Safety and Deputy Director
Great Lakes Center for Occupational Safety and Health
University of Illinois, Chicago

Head of Ergonomics Branch
Institute of Occupational Medicine
Mining Research and Development Establishment
National Coal Board, Burton-upon-Trent, U.K.

Director of Masters Degree Course in Industrial Ergonomics
School of Production Studies
Institute of Technology, Cranfield, U.K.

Manager
Ergonomics Department
Pilkington Ltd.
St. Helens, U.K.

Industrial Engineer
Ilford Ltd.
Ilford, U.K.

HONORS AND AWARDS

International Ergonomics Association

Fellow	2003
President's Award: For support of ergonomics internationally and proven skills in establishing research and development organizations dedicated to ergonomics.	1997

Human Factors and Ergonomics Society

Fellow	1987
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Ergonomics Society

The Otto Edholm Medal for Research	2002
The Society Lecture <i>"2000 and Onwards - Challenges for Ergonomics"</i>	2000
The Broadbent Lecture	1999
The President's Medal The Liberty Mutual Research Center for Safety and Health was awarded this medal for significant contribution to original research, the development of methodology and the application of knowledge within the field of Ergonomics.	1994
Sir Frederick Bartlett Medal The Ergonomics Branch of the National Coal Board (Institute of Occupational Medicine) received the Medal for the development of ergonomics in the British mining industry between 1975-82.	1983
Fellow	1988

American Industrial Hygiene Association

Edward J. Baier Technical Achievement Award. The Liberty Mutual Research Center for Safety and Health was recognized .	1995
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New Zealand Ergonomics Society

Society Lecture	1999
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Institute of Industrial Engineers

Ergonomics Division Award for Outstanding Contributions to the Enhancement of Ergonomics.	1993
The Ergonomics Division received an Award of Excellence for the 1990-1991 program.	1991

Ingersoll Rand Endowed Lecture Series

Virginia Tech, Department of Industrial and Systems Engineering	2003
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Institution of Production Engineers

Sir Ben Williams Silver Medal	1969
Fellow	1988
Texas Tech University	
Member, Texas Tech Academy of Industrial Engineers	1995
American Society of Safety Engineers	
<i>Professional Safety Paper Award</i>	1985
Trustee, ASSE Foundation	1992-
College of Lake County, Illinois	
The 1985 Distinguished Lecturer	1985
Other	
Who's Who in America <i>Marquis 50th Edition</i>	1996
Who's Who in Science and Engineering 1994-1995 <i>Marquis 2nd Edition</i>	1993
Who's Who in the World <i>Marquis 5th Edition</i>	1981

OTHER ACADEMIC APPOINTMENTS

FACULTY		
Harvard University	Present	Adjunct Professor of Occupational Safety
Mississippi State University	1998	Invited Industrial Professorship in Bio-Medical Engineering
University of Aberdeen, Scotland	1996	Dept. of Environmental and Occupational Medicine
University of Illinois, Chicago	1992-3	Adjunct Appointments in College of Engineering and School of Public Health
Loughborough University	1976-80	Associate Reader
Tsinghua University, Beijing PRC	2003-06	Guest Professor
Chongqing University, PRC	2002	Guest Professor
OTHER		
Cornell University		College of Human Ecology, Department of Design Advisory Board Member
University of Wisconsin-Madison		College of Engineering Visiting Committee Member
University Malaysia		Institute for Design and Ergonomics Applications International Advisory Panel Member
Harvard University		Harvard Environmental Health Council Member
University of Vermont	1993-97	Rehabilitation Engineering Research Center Advisory Board, Chair

PROFESSIONAL AFFILIATIONS

Eur. Eng.	European Federation of National Engineering Associations ¹ <i>European Engineer</i> (registration # 02190GB)
C. Eng.	The Engineering Council of Great Britain ² <i>Chartered Engineer</i> (registration # 212843)
C.P.E.	Board of Certification in Professional Ergonomics <i>Professional Ergonomist</i> (registration # 039)
F.I.Elec.E.	Institution of Electrical Engineers <i>Fellow</i> Institute of Industrial Engineers <i>Senior Member</i> Human Factors and Ergonomics Society <i>Fellow</i>
F.Erg.S.	Ergonomics Society <i>Fellow</i>
A.M.C.S.T.	Manchester Institute of Science and Technology <i>Associate</i> International Commission on Occupational Health, Geneva <i>Member</i> Sigma Xi <i>Member</i> American Society of Safety Engineers <i>Professional Member</i> American Institute of Industrial Hygienists <i>Member</i> American Society of Engineering Education <i>Member</i>

EDUCATION

Ph.D.	Institute of Technology, Cranfield <i>Industrial Engineering and Production Management</i>
M.Sc.	Institute of Technology, Cranfield <i>Industrial Engineering (Ergonomics)</i>
M.Sc.	University of Aston, Birmingham <i>Applied Psychology</i>
B.Sc.	University of Manchester <i>Chemistry</i>

¹ Established in 1989 to harmonize professional qualifications throughout the European Economic Community.

² Established by Royal Charter to register professional engineers who attain the appropriate standards in education, practice and management experience; equivalent to professional engineering.

PROFESSIONAL RESPONSIBILITIES

International Society of Industrial Ergonomics & Safety
President 2007-8

Institute of Medicine
Member Review of NORA Traumatic Injury Programs
Member Review of NASA Health program

Journal of Safety Research
Editorial Board Member

National Institute of Occupational Safety and Health
Member of numerous site visit teams, nationwide

National Occupational Research Agenda (NORA)
Liaison Committee
Musculoskeletal Team

Theoretical Issues in Ergonomics Science
Editorial Board Member

International Journal of Industrial Engineering
Editorial Board Member

Injury Prevention 1999
Editorial Board Member

Applied Ergonomics 1997
Editorial Board Member

Industrial and Occupational Ergonomics: User's Encyclopedia 1997
Editorial Board Member

Liberty OMS Ltd. 1996-
Board Member

National Safety Council, Journal of Safety Research 1995
Editorial Board Member

International Society for Industrial Ergonomics and Safety 1995-
Board Member

National Academy of Sciences 1994-1999
Member, Committee on Human Factors

American Society of Safety Engineers Foundation 1993-1996
Trustee

Institute of Industrial Engineers 1990-1991
Chair, Ergonomics Division

Human Factors and Ergonomics Society 1983-1985
Chair, Industrial Ergonomics Technical Group

Institute of Electrical Engineers 1976-1978
Member of Committee on Automation Management

Federation of Productivity Services

Member of Council

1976

Ergonomics Society:

(a) Honorary General Secretary

1973-1979

(b) Honorary Conference Secretary

1971-1973

(c) Executive Secretary, Industrial Committee

1969-1972

Institution of Production Engineers

Chairman of Liverpool Graduate Section

1965-1966

LIBERTY MUTUAL RESEARCH CENTER FOR SAFETY & HEALTH

Appointment

Vice President, Liberty Mutual Insurance Co. 1991-2006
Director, Liberty Mutual Research Center for Safety and Health

Responsibilities

Responsible for the research program in ergonomics and human factors of occupational safety and health.³

This program was awarded the Edward J. Baier Technical Achievement Award by the American Industrial Hygiene Association in 1995. The only other external institution ever to be so honored by the Association was the ILO Health and Safety Committee. The Ergonomics society recognized the program with the Presidents Award

Service

Institute of Medicine:
Review committee NIOSH Traumatic Injury Research 2008
Review committee NASA 2006

Human Factors and Ergonomics Society
Accreditation Review Committee Member 1999-

Cornell University, College of Human Ecology, Department of
Design and Environmental Applied Ergonomics 1998-

NORA Musculoskeletal Team 1998
NORA Liaison Committee 1998-2007

University of Wisconsin - Madison, The College of Engineering 1998
Visiting Committee Member

Institute for Circadian Physiology 1998-2000
Board of Directors

International Advisory Panel for the Institute for Design and
Ergonomics Applications, University Malaysia 1997
Member

International Slip, Trip and Fall Accident Researcher Group 1997-

Liberty OMS Ltd., U.K. 1996-2000
Board Member

Harvard University Harvard Environmental Health Council 1996-2003

National Academy of Sciences 1994-1998
Committee on Human Factors, Member

Harvard School of Public Health 1993-Present
Lecturer on Environmental Health

Nuclear Regulatory Committee Advisory Committee on Reactor Safety, Consultant	1993-1994
American Society of Safety Engineers Foundation Trustee	1993-1996
Vermont Rehabilitation Engineering Research Center Chair, Advisory Board	1993-1997
National Science Foundation Undergraduate Equipment Program, Review Panel Member	1992

³ This program is described in *From Research to Reality*TM, the Annual Report of the Research Center.

DEPARTMENT OF INDUSTRIAL ENGINEERING

Appointment

Tenured Professor and Chairman

1987-91

Responsibilities

Responsible for the academic management of the department, and programs at the doctoral, master and baccalaureate levels.

Service

Chair, Search Committee for Chairman of the Department of Chemical Engineering
Chair, Committee for Criteria for Named Chairs
Member, College Grievance Committee
Chair, College Faculty Development Committee
Chair, College Development Committee
Review of undergraduate program in industrial engineering at Universidad de las Americas, Puebla, Mexico

Other Activities

Consulted and advised a diverse group of public organizations, private corporations and trade unions on matters relating to human factors engineering and engineering controls for occupational health and safety.
Served as graduate program reviewer for Center for Disease Control, National Institute of Occupational Safety and Health, for many programs.
Conducted workshops for the Occupational Safety and Health Administration.

DEPARTMENT OF INDUSTRIAL ENGINEERING

Appointment:

Tenured Professor and Department Chair	1982-87
Acting Dean, College of Engineering and Engineering Technology	1985-86

Responsibilities:

The founding of the College of Engineering and Engineering Technology and the establishment of the Department of Industrial Engineering. This included establishing the college, curricula, faculty, administration and building.⁴

Service

Member, President's Constitutional Review Committee	
Member, University Council	
Member, University Council Agenda Committee	
Member, Committee B (Governance and Rules)	
Member, Council of the Graduate School	
Consultant to the Great Lakes Center for Occupational Safety and Health, University of Illinois, Chicago	Health,
Member of the National Institute of Occupational Safety and Health on Control Technology	Working Group
Ergonomics Adviser to the ANSI TAG on fall arresting devices	
Member, Advisory Board, The Center for Occupational Health and Marianjoy Hospital, Wheaton	Rehabilitation,
Member, Rock Valley College Industrial Advisory Committee	

Other Activities

Adjunct Appointments in the College of Engineering and School of Public Health, both at University of Illinois, Chicago.

Consulted and advised a diverse group of public organizations, private corporations and trade unions on matters relating to human factors engineering and engineering controls for occupational health and safety.

Served as graduate program reviewer for Center for Disease Control, National Institute of Occupational Safety and Health, at several programs including: Department of Industrial Engineering, University of Cincinnati; Department of Industrial Engineering, University of Michigan; University of Alabama; University of New York; New York Institute of Technology.

Chair of review teams for University of Minnesota and New Jersey Institute of Technology.

Served as Study Section Advisory Member for CDC research proposals in occupational safety and health (Washington).

⁴The administrative proposal for the new College received Board of Regents approval in March and began functioning in July, 1985. The proposal called for an additional \$2,000,000 per annum including an initial increase of 19 new faculty positions. The initial base budget addition of \$1.1m was received July 1, 1985. This complemented the substantial number of faculty with engineering Ph.D.'s in the program. The new temporary building of the College was occupied in October and consisted of 30,000 square feet of modern, purpose designed accommodations.

GREAT LAKES CENTER FOR OCCUPATIONAL SAFETY AND HEALTH

(Educational Resource Center/Graduate School)

Appointment:

Director of Graduate Programs in Occupational Safety
Deputy Director of Great Lakes Center for Occupational Safety and Health (GLCOSH)
(1981-82)

Responsibilities:

The establishment of the graduate programs in Occupational Safety, including the development of courses in Human Factors Engineering, Ergonomics and Occupational Safety, for field work in these areas and for the Ergonomics Laboratory.

Service

Chairman, Program Committee, Industrial Section, HFS	1981
Member, Academic Accreditation Visitation Committee, ASSE	1981
Member, Committee on Education Programs, SPH	1981

Other Activities:

Consultancy: Ergonomics and Human Factors Associates

**MINING ENGINEERING
RESEARCH & DEVELOPMENT ESTABLISHMENT**

(Engineering Research and Development Institution)

Appointment:

Head of Ergonomics Branch	1975-1981
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Other Appointments:

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| a) Associate Reader ⁵ in Ergonomics
University of Loughborough | 1977-1981 |
| b) Member, Editorial Board of Applied Ergonomics | 1977- |

Responsibilities

Responsible for the founding, development and subsequent direction of the largest ergonomics group in industry in Western Europe. The Branch was formed in 1975, and developed to an establishment of over twenty graduate staff, six support staff and an annual budget more than \$940,000 (1981).

The program was awarded the Sir Frederick Bartlett Medal (the premier award of the Ergonomics Society) for development of ergonomics during the period 1975-81.

The Branch was solely responsible for the ergonomics research and applications in the coal mining industry with its 250,000 employees and covered the ancillary areas from bulk handling terminals to coke and chemical production. The constitution of the Institute encouraged research and application contracts outside the coal industry; contracts included the Human Factors of Large Continuous Chemical Process Plants, (I.C.I. Ltd.), The Human Factors of Materials Handling Vehicles on Construction Sites, (H.S.E.), and Human Factors of Maintenance in the canning industry, (Petfoods Ltd.)

⁵ A reader in a British university is a research appointment midway between a Professor and a Senior Lecturer. At the Department in L.U. there were two professors, one other reader, six senior lecturers and twelve lecturers, thus a conservative equivalence to many American universities would be that of a Research Professor.

Service with Coal Industry

Member of:

1. Mining Research and Development Establishment
Advisory Group on Computers and Coal Face Design (1978/1980)
2. Testing Committee Working Group on Basic
Requirements for Machines (Shearer Loaders) (1977/1978)
3. Ergonomics Committee of Confederation of Underground
Machinery Manufacturers (1975/1979)
4. Ergonomics and Safety Sub-Committee of NBC/
Association of British Mining Equipment Companies,
Joint Policy Advisory Committee (1979/1981)
5. Nationalized Industries (Coal, Gas & Electricity),
Working Party on Noise (1977)
6. Safety in Mines Research Establishment Liaison
Committee (1977/1978)
7. NCB Working Party on Protective Clothing (1976/1981)
8. NCB Working Party on Hot, Humid Conditions and
Air Conditioning Underground (1977/1981)
9. NCB Behavioral Research Liaison Committee (1977/1981)
10. Haulage and Transport Accidents, National Steering
Committee Working Group on Loco Design and Cab
Layout (1978/1981)
11. NCB/ABMEC/CPA - Joint Environmental Group,
Sub-Committee on Mine Illumination (1978/1981)
12. Mining Research and Development Establishment,
Noise and Rotary Test (1978/1980)
13. U.K. Representative on Committee of Experts, ECSC IV
Program in Ergonomics (Oct./1980)

Other Activities

1. Joint Chairman, Ergonomics Society Conference, "Ergonomics and Protective Clothing", University of Loughborough (1980)
2. Joint Chair, Ergonomics Society Conference, "Ergonomics and the Health and Safety at Work Act", Royal Zoological Society, London (1972)
3. Convenor and Chair, Ergonomics Society, Annual Conference Session, "Ergonomics in Practice", University of Oxford (1979)
4. Convenor and Chair, Ergonomics Society, Annual Conference, "Ergonomics and Safety", University of Nottingham (1980)
5. Consultant to the Back Pain Association (1976/1981)
6. Contributed on a regular basis to postgraduate courses at:

Institute of Technology, Cranfield	University of Aston in Birmingham
University of London	University of Loughborough
University of Dundee	University of Birmingham

INSTITUTE OF TECHNOLOGY

(Postgraduate Engineering University)

Appointment:

Director of Ergonomics and Human Factors Studies
(tenured) 1969/1975

Other Appointments:

- a) Member of the Senate⁶ 1974
- b) Secretary to the Board of Management of the School
of Production Studies 1972/1974

Responsibilities

The Group consisted of three academic staff and three technical staff.

The responsibilities included:

The Masters Degree Course in Ergonomics and Human Factors Engineering, the ergonomics teaching laboratory, the establishment of short courses for Industry, supervision of postgraduate research and contract research.

Additionally, new graduate courses including:

- Industrial Ergonomics I
- Industrial Ergonomics II
- Industrial Ergonomics III
- Human Variability in Operations Research
- Ergonomics and Air Transport Management
- Human Performance and the Working Environment

Directed the Feasibility Study on *Food Systems Engineering and Technology for Developing Nations*.

⁶ The Senate is the Chief Executive Committee of a British University, comprising the Deans of the Colleges and, at CIT, three elected faculty - I served in the latter capacity

External Responsibilities included:

1. The establishment of a graduate course, "*Ergonomics in Industrial Design*" at the Postgraduate School of Industrial Design, Central School of Art and Design, London.
2. Contributed to graduate courses:

Brunel University	M.Sc. (Production Engineering)
University of Birmingham	M.Sc. (Production Engineering)
University of Nottingham	M.Sc.(Production Engineering)
University of Dundee	Postgraduate Dip. in Industrial Health
University of Hull	M.Sc.(Occupational Psychology)
3. Designed and presented in-house training courses for major companies.
4. Part-time Consultancy, Ergonomics and Human Factors Associates.
5. Graduate Research. Each graduate was required to complete a research thesis for the M.Sc. Twenty students graduated in the field of Industrial Ergonomics during my tenure.

PILKINGTON BROTHERS LIMITED

(Glass Manufacturers)

Appointment:

Ergonomics Manager (1964/1970)

Other Appointments:

Ergonomics Consultant to the British Glass Industry Research Association (1966/1969)

Responsibilities:

Responsible for founding and development of the Ergonomics department. This was the first department to be established in-house in a continuous process industry in the United Kingdom, and possibly in Western Europe. The section ultimately consisted of four graduate and three technical staff. The responsibilities included the management of the ergonomics activity in the group and the provision of investigation and advice to the group.

Other Activities

Director of the Ergonomics Research Society Conference on Human Factors in the Management of Industrial Inspection, London, 1968.

ILFORD LIMITED

Ilford, UK.

(Photographic Materials Manufacturers)

Appointment:

Industrial Engineer 1961/1962

Responsibilities:

General Industrial Engineering

PUBLICATIONS, PAPERS and REPORTS

PUBLICATIONS and PROCEEDINGS

- Marucci-Wellman, H., Leamon, T.B., Ta Thi Tuyet Binh, Nguyen Bich Diep, Wegman, D., Kriebel, D., (2008) "A Survey of Work-Related Injury in a Rapidly Industrializing Commune in Vietnam" *Int. J. Occupational & Environmental Health*
- Huang, Y.H., Leamon, T.B., Courtney, T.K., Chen, P.Y., and DeArmond, S., (2007), "Corporate Financial Decision-Makers' Perceptions of Workplace Safety," *Accident Analysis and Prevention*, Vol. 39, No. 4, pp. 767-775
- Marucci-Wellman, H., Leamon, T.B., Binh, T.T.T., Diep, N.P. Kriebel, D., and Wegman, D.H. (2007), "Occupational Injury Surveillance in Vietnam," Proceedings of the 3rd China International Forum on Work Safety, Beijing, China, pp. 352-354, 2006
- Marucci-Wellman, H., Tuyet Binh, T.T., Bich Diep, N., Leamon, T.B., Kriebel, D. (2005), and Wegman, D.61, "Work and Injury in Vietnam - A Pilot Study: Self Reported Work and Injury in One Industrializing Commune of Vietnam," *Proceedings of the 2nd International Scientific Conference on Occupational and Environmental Health*, Hanoi, Vietnam, pp. 270-271
- Leamon, T.B., (2004) "Improving China's Work Safety: Pressures and Benefits," Proceedings of the 2nd China International Forum on Work Safety, Beijing, P.R. China, pp. 10-14,
- Li, K.W., Chang, W.R., Leamon, T.B., and Chen, C.J (2004), "Floor Slipperiness Measurement: Friction Coefficient, Roughness of Floors, and Subjective Perception Under Spillage Conditions," *Safety Science*, Vol. 42, No. 6, pp. 547-565,
- McGorry, R.W., Dempsey, P.G., and Leamon, T.B., (2003) "The Effect of Technique and Shaft Configuration in Snow Shoveling on Physiologic, Kinematic, Kinetic, and Productivity Variables," *Applied Ergonomics*, Vol. 34, No. 3, pp. 225-231
- Dempsey, P.G., McGorry, R.W., Leamon, T.B., and O'Brien, N., (2002) "Bending the Tool and the Effect on Human Performance: Further Investigation of a Simulated Wire-Twisting Task," *American Industrial Hygiene Association Journal*, Vol. 63, No. 5, pp. 586-593,
- Gielo-Perczak, K. and Leamon, T.B., (2002) "An Investigation of the Individual Differences in Geometry of the Glenohumeral Joint on the Maximum Acceptable Workload," *Proceedings of the International Society of Biomechanics Fourth Meeting of the International Shoulder Group*, Cleveland, OH, June 17-18, pp. 5-7,
- Leamon, T.B. (2002) From Research to Reality-Part I: Introduction, Environmental Health and Safety Profession: American Society of Safety Engineers Proceedings, Nashville, TN on CD, 2002
- Gielo-Perczak, K. and Leamon, T.B., (2001) "Ergonomic Aspects in Biomechanical Analysis of the Glenohumeral Joint," *Proceedings of the XVIIIth Congress of the International Society of Biomechanics*, Zurich, Switzerland, pp. 352-353,
- Gronqvist, R., Abeysekera, J., Gard, G., Hsiang, S.M., Leamon, T.B., Newman, D. J., Gielo-Perczak, K., Lockhart, T.E., and Pai, C.Y.C. (2001), "Human-Centered Approaches in Slipperiness Measurement," *Ergonomics*, Vol. 44, No. 13, pp. 1167-1199,.
- Gronqvist, R., Chang, W.R., Courtney, T.K., Leamon, T.B., Redfern, M.S., and Strandberg, L., (2001) "Measurement of Slipperiness: Fundamental Concepts and Definitions" *Ergonomics*, Vol. 44, No. 13, pp. 1102-1117,
- Leamon, T.B. (2001) *The Future of Occupational Safety and Health*, International Journal of Occupational Safety and Ergonomics, Vol. 7, No. 4, pp. 403-408.
- Gielo-Perczak, K. and Leamon, T.B. (2001), "Ergonomic Aspects in Biomechanical Analysis of the Glenohumeral Joint," *Proceedings of the XVIIIth Congress of the International Society of Biomechanics*, Zurich, Switzerland, pp. 352-353, 2001
- Leamon, T.B. (2000) *The Increasing Importance of International Partnerships to Provide Global Prevention Services*, 8th International Colloquium of the ISSA Section Machine Safety Conference 2000, May 2-3.

- Leamon, T.B. (1999) *The Scope of Work Place Losses in the United States and the Role of Research*, Proceedings of the China SafeWork Forum, Chongqing, P.R. China, April 25-27.
- Leamon, T.B. (1999) *The Contribution of Corporate Funded Research in Occupational Safety to the Global Improvement of Work Place Safety*, Proceedings of the XVth World Congress on Occupational Safety and Health, Sao Paulo, Brazil, April 12-16.
- Dempsey, P.G. and Leamon, T.B. (1998) *Model Ergonomics Assessment: Retail Ice Cream Shop Case Study*, Proceedings of the 1998 Applied Ergonomics Conference, Atlanta, Georgia.
- Leamon, T.B. (1997) *Research to Reality of Workplace Injuries*, Proceedings of From Research to Reality - Improving Workplace Safety and Health in China, Shanghai, China, p. 1-3.
- Leamon, T.B. (1997) *Integration of Human Machine Analysis through IntraWeb Technology*, Proceedings of the 13th Triennial Congress of the International Ergonomics Association, Tampere, Finland, Vol. 4, p. 339-340.
- Chang, W.R. and Leamon, T.B. (1997) *The Effect of Surface Roughness on Measurement of Slip Resistance*, Proceedings of the 13th Triennial Congress of the International Ergonomics Association, Tampere, Finland, Vol. 3, p. 365-367.
- Murphy, P.L. and Leamon, T.B. (1997) *Events and Exposures Related to Slips, Trips and Falls in Industry*, Proceedings of the 13th Triennial Congress of the International Ergonomics Association, Tampere, Finland, Vol. 3, p. 393-395.
- Hagberg, M., Christiani, D., Courtney, T.K., Halperin, W., Leamon, T.B., and Smith, T.J. (1997) *Conceptual and Definitional Issues in Occupational Injury Epidemiology*, American Journal of Industrial Medicine, Vol. 32, No. 2, p.106-115.
- Leamon, T.B. (1996) *A Comprehensive Ergonomic Workplace Evaluation*, Proceedings of the Fourth Pan Pacific Conference on Occupational Ergonomics, Taipei, Taiwan, p. 53
- Leamon, T.B. (1996) *Low Back Pain and Low Back Pain Disability*, Proceeding of the Fourth Pan Pacific Conference on Occupational Ergonomics, Taipei, Taiwan, p. 659
- Murphy, P.L., Sorock, G.S., Courtney, T.K., Webster, B.S. and Leamon, T.B. (1996) *Injury and Illness in the American Workplace: A Comparison of Data Sources*, American Journal of Industrial Medicine, Vol. 30, p.130-141.
- Leamon, T. B. (1996) *Successful Safety Programmes*, ILO Encyclopaedia of Occupational Safety and Health, Ed. Dr. J. Stellman, October.
- Leamon, T. B. (1996) *Implementation of a Safety Program*, ILO Encyclopaedia of Occupational Safety and Health, Ed. Dr. J. Stellman, October.
- Murphy, P.L. and Leamon, T.B. (1996) *Risks Inside Chemical Installations*, Proceedings of the XIV World Congress on Occupational Safety and Health, Madrid, April 22-26.
- Leamon, T.B. and Murphy, P.L. (1996) *The Control of Accidents in Construction Industry Workplaces*, Proceedings of the XIV World Congress on Occupational Safety and Health, Madrid, April 22-26.
- Leamon, T. B. (1995) *The Validity of Ergonomic Design of Hand Tools to Reduce the Incidence of Upper Extremity Cumulative Trauma Disorders*, in proceedings of IEA World Conference 1995, 3rd Latin American Congress, 7th Brazilian Ergonomic Congress, October 16-20, Rio de Janeiro, Brazil.
- Leamon, T. B. (1995) *The Experimental Evaluation of a Program to Reduce Hazards from Both Unsafe Behaviors and Unsafe Conditions in Production Plants*, ISSA International Section Research 5th International Symposium, Interdisciplinary Research for Safety and Health Protection at Work, September 18-20, Bonn.
- Leamon, T. B. (1995) *The Evolution of Ergonomics*, Risk Management, September, Vol. 42, No. 9, p. 47-52.
- Leamon, T.B. and Dempsey, P.G. (1995) *The Unusual Congruence Between Subjective Evaluations and Losses Associated with Inadequate Hand Tool Design*, International Journal of Industrial Ergonomics, Vol. 16, No. 1, p. 23-28.
- Dempsey, P.G. and Leamon, T.B. (1995) *Bending the Tool and the Effect on Productivity: An investigation of a simulated wire-twisting task*, American Industrial Hygiene Association Journal, July.

- Leamon, T.B. and Courtney, T.K. (1995) *The Role of Ergonomic Regulation on Plant Level Operations*, in Proceedings of the Industrial Ergonomics and Safety Conference, Seattle, June 12-16; *Advances in Industrial Ergonomics and Safety VII*, Taylor & Francis, London
- Leamon, T.B. (1995) *Cumulative Trauma of the Upper Extremities: A Failure of the Safety Profession*, American Society of Safety Engineers Professional Safety, May, Vol. 40, No. 5, p. 30-33.
- Leamon, T.B. and Murphy, P.L. (1995) *Occupational Slips and Falls: More Than a Trivial Problem*, Ergonomics, Vol. 38, No. 3, p. 487-498.
- Leamon, T.B. (1994) *Precise Analysis Helps Carry That Weight*, Workplace Ergonomics, October, p. 39-42.
- Leamon, T.B. (1994) *Proposed Ergonomic Safety & Health Standards: A Review of the Current Position*, Proceedings of the 33rd Annual ASSE Professional Development Conference & Exhibition, Las Vegas, June.
- Leamon, T.B. (1994) *Low Back Pain Disability and Ergonomics Intervention*, Proceedings of the American Society of Safety Engineers Ergonomics Symposium, Ergonomics Evolution, Las Vegas, June.
- Leamon, T.B. and Murphy, P.L. (1994) *Ergonomic Losses in the Workplace- Their Reality*, *Advances in Industrial Ergonomics and Safety VI*, ed. F. Aghazadeh, Taylor & Francis, p. 81-88. Proceedings of the Industrial Ergonomics and Safety Conference '94, San Antonio, June.
- Dempsey, P.G. and Leamon, T.B. (1994) *Bent Pliers & Range of Motion: Theoretical vs. Empirical Concerns*, *Advances in Industrial Ergonomics and Safety VI*, ed. F. Aghazadeh, Taylor & Francis, Proceedings of the Industrial Ergonomics and Safety Conference '94, San Antonio, June.
- Leamon, T.B. (1994) *L₅/S₁: So Who is Counting?*, International Journal of Industrial Ergonomics, 13, 259-265.
- Leamon, T.B. (1994) *Research to Reality--A Critical Review of the Validity of Various Criteria for the Prevention of Occupationally Induced Low Back Pain Disability*, Ergonomics, 37,12, 1959-74.
- Leamon, T.B., & Murphy, P.L., (1995) "Slips and Falls: More than a Trivial Problem" *Ergonomics*, vol 38, no 3
- Myung, R., Smith, J.L. and Leamon, T.B. (1993) *A Subjective Assessment of Floor Slipperiness*, International Journal of Industrial Ergonomics, 11, 313-319.
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- Leamon, T.B., (2003) "The Economic and Social Burden of Occupational Injuries" 5th Scientific Conference on Occupational and Environmental Health Hanoi, Vietnam November 12-14, 2003
- Leamon, T. B., (2003) "Engineering a Safe Workplace"
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- Leamon, T.B., (2004) "Global Pressures for Improving Workplace Safety," 3rd International Conference on Occupational Risk Prevention, Santiago de Compostela, Spain, June 2-4
- Leamon, T.B., (2004) "Going Beyond the Headlines: The Real Cost Drivers in Workers Compensation," 13th Annual National Workers Compensation and Disability Conference, Chicago, IL, November 17-19
- Leamon, T.B. (2003) *Ergonomics and Occupational Safety: Research and Challenges*, Ingersoll Rand Endowed Lecture Series, Virginia Tech, April 9.
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- Leamon, T.B., (2002), "Insurance Approaches to Genetic Information Policy and Public Health," International Symposium on Genetic Science, Cambridge, England, September 12-13,
- Leamon, T.B., (2002) "Controlling the Cost of Unsafe Workplaces: Benefits to Workers and Enterprises," China International Forum on Work Safety, Beijing, People's Republic of China, October 10-11, 2002
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- Leamon, T.B. (2001) *People, Dead Camels and Coffee Tables* Applications of Human Performance in Health & Disability Cairo, March 26-29.
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- Leamon, T.B. (1972) *The Human Factor in Mechanical Handling in Docks*, University of Wales. Institute of Technology Symposium, Cardiff.
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EXTERNAL SUPPORT⁸

Texas Tech University

1988	Centers for Disease Control, NIOSH <i>Continuation</i>	\$117,000
1987	Centers for Disease Control, Injury Control Research <i>Experimental Studies of Falls</i>	\$264,600

Northern Illinois University

1986	National Institute for Occupational Safety and Health (NIOSH) <i>Renewal</i>	\$ 50,000
1985	National Institute for Occupational Safety and Health (NIOSH)	\$ 50,000
1984	Industrial Support <i>Development of a Fire Protection Engineering Proposal</i>	\$ 26,000
1984	National Institute for Occupational Safety and Health (NIOSH) <i>Northern Illinois Program for Occupational Safety & Health (Graduate Training Grant)</i>	\$ 30,000

University of Illinois, Chicago

1982	National Institute for Occupational Safety and Health (NIOSH) <i>Great Lakes Center for Occupational Safety and Health</i>	\$100,000
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National Coal Board, U.K.

1976-81 ⁹	Third Ergonomics Action Program	
	<i>An investigation of the task of the operator in a colliery control room</i>	\$ 62,131
	<i>An investigation of underground haulage and transport systems</i>	\$ 62,131
	<i>Investigation of face-end equipment and the resultant effects on work organization</i>	\$153,123
	<i>Visual requirements and lighting standards in mining operations</i>	\$112,213
	<i>Auditory communications in mining</i>	\$143,586
	<i>Thermal conditions in mining</i>	\$405,355
	<i>An investigation of stress in coalface workers</i>	\$238,670
	Supplement to Third Program	
	<i>Communications in noisy environments</i>	\$453,215
	<i>The human aspects of computer-based monitoring and control of mining operations</i>	\$432,442
	<i>Active man-cooling: a feasibility study</i>	\$237,714

⁸ In all cases except the University of Illinois training grant, these were single PI awards. Dr B.W.Carnow was the senior co-principal investigator on the latter.

⁹All funded by the European Coal and Steel Community, the costs are calculated at 1981 exchange rate.

Fourth Ergonomics Action Program		
	<i>An ergonomics evaluation of the haulage and transportation of mining supplies</i>	\$376,951
	<i>A study of powered handtools</i>	\$209,920
	<i>The ergonomics of the maintenance of mining equipment</i>	\$437,238
	<i>Ergonomics principles in the design of underground development machines</i>	\$328,046
Cranfield Institute of Technology		
1973	Department of Transport (U.K.)	\$67,200
	<i>Design criteria and passenger egress from buses</i>	

REFERENCES

The following people are familiar with the various aspects of this resumé, and would be appropriate references. I would be glad to contact them upon request.

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