

Jasper E. Shealy, Ph.D., CPE
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EMPLOYMENT EXPERIENCE

1973- present **Professor Emeritus** (as of 01/01/01), and formerly **Department Head** of Industrial and Manufacturing Engineering, Kate Gleason College of Engineering, Rochester Institute of Technology. (promotion from **Assistant** to **Associate Professor**, 1976; **Associate** to full **Professor**, 1981; **Department Head**, 1992-2000). Duties included teaching and research in psychological and physiological aspects of human performance. Teaching was done at both the undergraduate and graduate level. Courses taught included: Engineering Risk Benefit Analysis, Human Factors Engineering, Industrial Ergonomics, Safety Engineering, Engineering Design, Statistical Analysis, Work Measurement, Engineering Economy, and Project Design. Safety Coordinator/Director for the Kate Gleason College of Engineering 1974 to 1991.

1973-1992 **Director of the Human Factors/Ergonomics Laboratory.** The laboratory serves the undergraduate and graduate program and supports research for Industrial Ergonomics. It covers the full range of Ergonomics, including physiological, biomechanical, psychological and cognitive aspects of human performance. This lab also supports Industrial Ergonomics issues for the Center for Integrated Manufacturing Studies.

1989 - 1992 **Staff Ergonomist** in the Rochester Occupational Center, Saint Mary's Hospital, Rochester New York. Duties consisted of consulting with industrial clients on matters of Industrial Ergonomics. Specific assignments covered Ergonomic surveys of workplaces, analysis of accident and injury data, worker health data related to occupational related disorders to determine causes and to make specific recommendations as to modifications of workplaces, procedures, machinery, etc.

1981- 1986 **Research associate,** Applied Ergonomics Group, Incorporated. Served as consultant in the general area of human performance from a psychological and physiological viewpoint, the design of systems for human use, the use of accident and injury statistics to identify ergonomic problems, and to do in-depth accident analysis and reconstruction to determine causation for a variety of government and private organizations.

1970- 1973 **Graduate Student Research Assistant** at SUNY/Buffalo in Industrial Engineering, specializing in Human Factors Engineering. Major areas of course work and research were in psychological and physiological aspects of human performance, risk perception and theories of accident causation and systems failure. During this time, did projects at CALSPAN (Cornell Aeronautical Laboratories) in US-DOT sponsored work on vehicle crash-worthiness, MOOG Aerospace on inventory control and space utilization, and Erie County Medical Services on EMT Training and Utilization.

1963- 1970 **Personnel Subsystems Officer,** USAF, final rank Captain. Duties (1968-1970) included review officer for Human Factors requirements for new or proposed weapons systems, and review officer for human factors aspects in serious accident investigations. Served as an Air Police Officer; 11/63 to 5/68, including a tour of duty in the Republic of Vietnam as an Air Police Officer in charge of the security at Pleiku Air Base from May 1967 to May 1968.

1957-1963 **Co-op student/Junior Engineer,** (1957-63 while a student at the Georgia Institute of Technology) American Oil Company, Texas City, TX; Westvaco Chemical Corporation, South Charleston, WV; and the Lockheed Aircraft Corporation, Marietta, GA.

MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL SOCIETIES

American Society of Safety Engineers (past member)
American Society for Testing and Materials
Human Factors and Ergonomics Society (past member)
Institute of Industrial Engineers (past member)
International Society for Skiing Safety
National Ski Patrol System (past member)
Rochester Engineering Society (past member)
Sigma Xi (past member)
Society of Manufacturing Engineers (past member)

CERTIFIED PROFESSIONAL ERGONOMIST

Certificate No. 681, awarded 1994 by the Board of Certification in Professional Ergonomics

EDUCATION

Ph.D. in Industrial Engineering (Human Factors Engineering), **State University of New York at Buffalo**. Dissertation title: "The Effect of Risk Taking on Skilled Task Performance," 1974.
MS in Industrial Engineering (Human Factors Engineering), **State University of New York at Buffalo**. Thesis title: "Epidemiology of Ski Injuries in a Closed Population," 1973.
BS Applied Experimental Psychology, **Georgia Institute of Technology, Atlanta, GA**, 1963.

PROFESSIONAL EXPERIENCE

Reviewer of professional papers and books for:

Human Factors and Ergonomics Journal
Physician and Sports Medicine
American Society of Mechanical Engineering
American Society of Safety Engineers
American Society for Testing and Materials
International Society for Skiing Safety
McGraw-Hill Publishers

Co-Editor of *Skiing Trauma and Safety: Fifteenth Volume, ASTM STP 1460*. Anticipated publication date; 2005.

Co-Editor of *Skiing Trauma and Safety: Fourteenth Volume, ASTM STP 1440*. May 2003.

Co-Editor of *Skiing Trauma and Safety: Thirteenth Volume, ASTM STP 1397*. December 2000.

Co-investigator from 1979 to the present, on the Sugarbush Ski Injury Research Project in conjunction with the Department of Orthopedics and Rehabilitation, at the University of Vermont, Burlington, VT.

Co-investigator at RIT from 1990 to 1999 on Institute and NY State Industrial Ergonomic projects.

Co-investigator at RIT on the IBM TQM University Challenge Grant, 1991-1994. This grant funded the initial phases of the MS in Manufacturing Management and Leadership.

Recipient of a National Science Foundation grant in 1989 for Laboratory Equipment that relates to the upgrading of the Human Factors/Ergonomics Laboratory in the Industrial and Manufacturing Engineering program in the College of Engineering.

Member (since 1973) American Society for Testing and Materials, Committee F-27 on Snow Skiing; currently Chairman of F-27 and Chair of the Statistics subcommittee (F27.60). Past Chair of the Ski Boot subcommittee (F27.70). Past co-chair of the ad hoc Task Force for the field study to verify the Shop Practices Standards. ASTM/ANSI Delegate to International Standards Organization (ISO) for Snow Skiing Standards.

Faculty Exchange Participant in joint US-PRC (People's Republic of China) program February through May 1987. Taught and consulted with industry in the PRC in the areas of Ergonomics in Design and Manufacturing as well as Industrial Safety at the Shaanxi Institute of Mechanical Engineering, Xian, Shaanxi Province, People's Republic of China.

Professional Development Leave from RIT for the period of time from 12/1/96 through 3/1/97 to continue work in area of ski injury research in conjunction with the Department of Orthopedics and Rehabilitation, at the University of Vermont, Burlington, VT.

Invited Faculty Member or Keynote Speaker to:

16th International Congress on Ski Trauma, April 17-23, 2005, Arai Mountain & Spa, Niigata, Japan, sponsored by the *International Society for Skiing Safety* and the *American Society for Testing and Materials*. Keynote address title: **“Safety Related Equipment Design: How skiing has become safer”**

15th International Congress on Ski Trauma, April 27 to May 5, 2003, St. Moritz, Switzerland, sponsored by the *International Society for Skiing Safety* and the *American Society for Testing and Materials*. Keynote address title: **“New and Modified National and International Standards; Results of the Tedious Work of Standardization Committees”**

14th International Congress on Ski Trauma, August 5-10, 2001, Queenstown, New Zealand, sponsored by the *International Society for Skiing Safety* and the *American Society for Testing and Materials*. Keynote address title: **“What Do We Know?”**

13th International Congress on Ski Trauma, May 2-8, 1999, Breuil Cervenia, Italy, sponsored by the *International Society for Skiing Safety* and the *American Society for Testing and Materials*. Keynote address title: **“Modalities of Death; Snowboarding and Skiing Differences, 1991/90 through 1998/99.”**

12th International Congress on Ski Trauma, May 4-10, 1997, Chateau Whistler Resort, Whistler, British Columbia, Canada, sponsored by the *International Society for Skiing Safety* and the *American Society for Testing and Materials*. Keynote address titles: **“An Examination of Public Policy Concerning Helmets in Snow Sports,”** and **“Nine Years of Snowboarding Injuries at Sugarbush,”**

11th International Congress on Ski Trauma, April 23-29, 1995, Voss, Norway, sponsored by the *International Society for Skiing Safety* and the *American Society for Testing and Materials*. Keynote address title: **“Epidemiology of Snowboarding Injuries: 1988 to 1995.”**

Maine Society of Orthopedic Surgeons, 7th annual winter meeting Lectured on ACL injury mechanisms, and helmets in skiing and snowboarding, Sugarloaf, ME, March 6-8, 1997.

New England Medical Association, Winter Sports Trauma Course, March 1996. Lectured on ski trauma statistics and injury mechanisms, with particular emphasis on Snowboard injuries.

American Academy of Orthopaedic Surgeons, Winter Sports Trauma Post Graduate Course; 1973 and 1985. Lectured on ski injury research, with emphasis on biomechanics of ski injuries and the role of ski equipment.

Ski Mechanics Workshop; 1978-1979. Lectured on topics of ski injury research, injury mechanisms and ASTM standards that relate to ski equipment.

Consumer Product Safety Commission; 1976. Designed and team taught a week long Human Factors training program for Senior Accident Investigators in Accident Reconstruction techniques, and how to construct data bases for accident/injury research purposes.

CONSULTING CLIENTS

CALSPAN
City of Rochester, New York
Corning Glass
Crown Equipment Corporation
Cubco, Inc. (Sports Equipment)
Eastman Kodak
Fisher-Price Toys
General Motors
General Railway Signal
Hewlett-Packard

International Business Machines
Keystone Ski Area, Div. of Ralston Purina
Lange USA, Inc. (Sports Equipment)
Look Sports, Inc. (Sports Equipment)
Purolator
National Ski Areas Association
Sybron-Taylor
U.S. Consumer Product Safety Commission
Veteran's Administration, U.S. Govt.
Xerox

PRESENTATIONS AND PUBLICATIONS

“Safety Related Equipment Design: How skiing has become safer” (keynote address) Shealy, J. E., *presented at the 16th International Conference on Skiing Trauma and Safety*. Conference was held at Arai Mountain and Spa, Niigata, Japan from April 17-23, 2005.

“Head Trauma and Helmet Usage in Recreational Skiing,” Shealy, J. E., Ettlinger, C. F. and Johnson, R. J., *presented at the 16th International Conference on Skiing Trauma and Safety*. Conference was held at Arai Mountain and Spa, Niigata, Japan from April 17-23, 2005.

“On-piste Fatalities in Recreational Snow Sports in the U. S.,” Shealy, J. E., Ettlinger, C. F. and Johnson, R. J., *presented at the 16th International Conference on Skiing Trauma and Safety*. Conference was held at Arai Mountain and Spa, Niigata, Japan from April 17-23, 2005.

“Functional and Release Characteristics of Alpine Ski Equipment,” Ettlinger, C. F., Johnson, R. J., and Shealy, J. E., *presented at the 16th International Conference on Skiing Trauma and Safety*. Conference was held at Arai Mountain and Spa, Niigata, Japan from April 17-23, 2005.

“Injury Trend and Risk Factors Involving ACL Injuries in Alpine Skiing,” Johnson, R. J., Shealy, J. E., and Ettlinger, C. F., *presented at the 16th International Conference on Skiing Trauma and Safety*. Conference was held at Arai Mountain and Spa, Niigata, Japan from April 17-23, 2005.

“Skier Injury Trends- a 30 Year Investigation,” Johnson, R. J., Ettlinger, C. F. and Shealy, J. E.; *presented at the 15th International Conference on Skiing Trauma and Safety*. Conference was held at St. Moritz, Switzerland from April 27 to May 5, 2003. This paper has been accepted for publication in **JAI 9002, Skiing Trauma and Safety: Fifteenth Volume**.

“New and Modified National and International Standards- Results of Tedious Work of Standardization Committees,” Shealy, J. E., and Otto Harsanyi, *presented at the 15th International Conference on Skiing Trauma and Safety*. Conference was held at St. Moritz, Switzerland from April 27 to May 5, 2003.

“Ski and Snowboard Injuries in 2000/01 in the United States,” Shealy, J. E., Ettlinger, C. F. and Johnson, R. J., *presented at the 15th International Conference on Skiing Trauma and Safety*. Conference was held at St. Moritz, Switzerland from April 27 to May 5, 2003.

“How Fast do People go on Alpine Slopes,” Shealy, J. E., Ettlinger, C. F. and Johnson, R. J., *presented at the 15th International Conference on Skiing Trauma and Safety*. Conference was held at St. Moritz, Switzerland from April 27 to May 5, 2003. This paper has been accepted for publication in **JAI 9002, Skiing Trauma and Safety: Fifteenth Volume**.

“Strategies for improving the Efficiency and reliability of Ski Equipment Rental Operations,” Johnson, R. J., Ettlinger, C. F. and Shealy, J. E., *presented at the 15th International Conference on Skiing Trauma and Safety*. Conference was held at St. Moritz, Switzerland from April 27 to May 5, 2003. This paper has been accepted for publication in **JAI 9002, Skiing Trauma and Safety: Fifteenth Volume**.

“Release Characteristics of Alpine Ski Equipment Associated with Lower Extremity Injuries,” Shealy, J. E., Ettlinger, C. F. And Johnson, R. J., *presented at the 15th International Conference on Skiing Trauma and Safety*. Conference was held at St. Moritz, Switzerland from April 27 to May 5, 2003.

“The Use of Signal Detection Theory to Assess the Effectiveness of Current Binding Setting Algorithms,” Shealy, J. E., Ettlinger, C. F. And Johnson, R. J., *presented at the 15th International Conference on Skiing Trauma and Safety*. Conference was held at St. Moritz, Switzerland from April 27 to May 5, 2003. This paper has been accepted for publication in **JAI 9002, Skiing Trauma and Safety: Fifteenth Volume**.

“A Method of Comparing Ski Related Injuries Among Studies,” Johnson, R. J., Ettlinger, C. F. and Shealy, J. E.; *Skiing Trauma and Safety: Fourteenth Volume, ASTM STP 1440*, R. J. Johnson, M. Lamont, and J. E. Shealy, Eds., American Society for Testing and Materials, West Conshohocken, PA, 2003, pp. 121-128.

“A 29 Year Study of Collision Injuries at Sugarbush,” Eun, S. P., Johnson, R. J., Ettlinger, C. F. and Shealy, J. E.; *presented at the 14th International Conference on Skiing Trauma and Safety*. Conference was held at Queenstown, New Zealand from August 5-10, 2001

“What Do We Know About Ski Injury Research that Relates Binding Function to Knee and Lower Leg Injuries?,” Shealy, J. E., Ettlinger, C. F. and Johnson, R. J.; *Skiing Trauma and Safety: Fourteenth Volume, ASTM STP 1440*, R.J. Johnson, M. Lamont, and J. E. Shealy, Eds., American Society for Testing and Materials, West Conshohocken, PA, 2003, pp. 36-52.

“Where Do We Go From Here,” Ettlinger, C. F., Johnson, R. J., and Shealy, J. E.; *Skiing Trauma and Safety: Fourteenth Volume, ASTM STP 1440*, R.J. Johnson, M. Lamont, and J. E. Shealy, Eds., American Society for Testing and Materials, West Conshohocken, PA, 2003, pp. 53-63.

“Head Injuries and Helmets in Alpine Sports,” Shealy, J. E., Ettlinger, C. F. and Johnson, R. J.; *presented at the 14th International Conference on Skiing Trauma and Safety*. Conference was held at Queenstown, New Zealand from August 5-10, 2001

“Femur and Tibial Plateau Fractures in Alpine Skiing,” Shealy, J. E., Ettlinger, C. F. and Johnson, R. J.; *Skiing Trauma and Safety: Fourteenth Volume, ASTM STP 1440*, R.J. Johnson, M. Lamont, and J. E. Shealy, Eds., American Society for Testing and Materials, West Conshohocken, PA, 2003, pp. 140-148.

“Update on Injury Trends In Alpine Skiing,” Johnson, R. J., Ettlinger, C. F. and Shealy, J. E.; *Skiing Trauma and Safety: Thirteenth Volume, ASTM STP 1397*, R.J. Johnson, P. Zucco, and J. E. Shealy, Eds., American Society for Testing and Materials, West Conshohocken, PA, 2000, pp. 108-118.

“A Two Year Study of Ski boards,” J. E. Shealy, C. F. Ettlinger and R. J. Johnson; *Skiing Trauma and Safety: Thirteenth Volume, ASTM STP 1397*, R.J. Johnson, P. Zucco, and J. E. Shealy, Eds., American Society for Testing and Materials, West Conshohocken, PA, 2000, pp. 127-131.

“Rates and Modalities of Death; Snowboarding and Skiing Differences, 1991/92 through 1998/99,” J. E. Shealy, C. F. Ettlinger, and R. J. Johnson; *Skiing Trauma and Safety: Thirteenth Volume, ASTM STP 1397*, R.J. Johnson, P. Zucco, and J. E. Shealy, Eds., American Society for Testing and Materials, West Conshohocken, PA, 2000, pp. 132-138.

“Alpine Ski Bindings and Injuries: Current Findings,” Natri, Antero, Beynnon, B. D., Ettlinger, C. F., Johnson, J. R., and Shealy, J. E., *Sports Medicine*, July 28, 1999 (1), pp. 35-48.

“A Three Year Study of Shaped Skis,” R. J. Johnson, A. Natri, J. E. Shealy, and C. F. Ettlinger, presented at the 13th International Congress on Ski Trauma, May 2-8, 1999, Breuil Cervenia, Italy.

“Analysis of Falls in Alpine Skiing,” C. F. Ettlinger, J. E. Shealy, and R. J. Johnson, presented at the 13th International Congress on Ski Trauma, May 2-8, 1999, Breuil Cervenia, Italy.

“Signal Detection Theory: A Model for Evaluating Release/Retention Criteria in Alpine Ski-Binding-Boot Systems,” J.E. Shealy, C.F. Ettlinger, and R.J. Johnson; *Skiing Trauma and Safety: Twelfth Edition, ASTM STP 1345*, R.J. Johnson, Ed., American Society for Testing and Materials, West Conshohocken, PA, 1999, pp. 120-131.

“Skiing Injuries in Children, Adolescents, and Adults”, M. C. Diebert, D. D. Aronsson, R. J. Johnson, C. F. Ettlinger, and J. E. Shealy, *The Journal of Bone and Joint Surgery*, January 1998, Vol. 80-A, No. 1, pp. 25-32.

“Impact of Super Sidecut Skis on the Epidemiology of Skiing Injuries,” R. J. Johnson, C. F. Ettlinger, J. E. Shealy, and C. Meader, *Sportverletzung Sportschaden*, Heft 4, 11, Jahrgang, Dezember 1997, pp. 150-152.

“Nine Years of Snowboarding Injuries at Sugarbush,” J. E. Shealy, R. J. Johnson, and C. F. Ettlinger; keynote address presented at the Twelfth International Symposium on Ski Trauma & Skiing Safety, May 4-10, 1997 Whistler, British Columbia, Canada.

“Fall Classification Study,” C. F. Ettlinger, C. Meader, R. J. Johnson, and J. E. Shealy; paper presented at the Twelfth International Symposium on Ski Trauma & Skiing Safety, May 4-10, 1997 Whistler, B. C., Canada.

“Video Analysis of Falls and Reliability Study,” C. F. Ettlinger, J. E. Shealy, R. J. Johnson, and C. Meader; paper presented at the Twelfth International Symposium on Ski Trauma & Skiing Safety, May 4-10, 1997 Whistler, British Columbia, Canada.

“Experimental Design- A Study to Investigate the Feasibility of Asymmetrical Characteristics of Alpine Bindings,” C. F. Ettlinger, J. E. Shealy, R. J. Johnson, and B. Beynnon; paper presented at the Twelfth International Symposium on Ski Trauma & Skiing Safety, May 4-10, 1997 Whistler, British Columbia, Canada.

“An Examination of Public Policy Concerning Helmets in Snow Sports,” J. E. Shealy, R. J. Johnson, C. F. Ettlinger, and L. Ruskin; keynote address presented at the Twelfth International Symposium on Ski Trauma & Skiing Safety, May 4-10, 1997 Whistler, British Columbia, Canada.

“Twenty-five years of Skiing Injury Epidemiology,” R. J. Johnson, C. F. Ettlinger, and J. E. Shealy; keynote address presented at the Twelfth International Symposium on Ski Trauma & Skiing Safety, May 4-10, 1997 Whistler, British Columbia, Canada.

“Impact of Shaped Skis on the Epidemiology of Skiing Injuries,” R. J. Johnson, C. F. Ettlinger, and J. E. Shealy; paper presented at the Twelfth International Symposium on Ski Trauma & Skiing Safety, May 4-10, 1997 Whistler, British Columbia, Canada.

“Latest Developments in the Investigation of Knee Injury Mechanisms in Alpine Skiing,” C. F. Ettlinger, J. E. Shealy and R. J. Johnson; paper presented at the Twelfth International Symposium on Ski Trauma & Skiing Safety, May 4-10, 1997 Whistler, British Columbia, Canada.

“Video Analysis of ACL Injuries and Reliability Study,” C. F. Ettlinger, R. J. Johnson, J. E. Shealy, and, C. Meader; paper presented at the Twelfth International Symposium on Ski Trauma & Skiing Safety, May 4-10, 1997 Whistler, British Columbia, Canada.

“ACL Awareness Training- Five Year Report,” R. J. Johnson, C. F. Ettlinger, and J. E. Shealy; paper presented at the Twelfth International Symposium on Ski Trauma & Skiing Safety, May 4-10, 1997 Whistler, British Columbia, Canada.

“Skier Injury Trends: 1972-1994”, R. J. Johnson, C. F. Ettlinger, and J. E. Shealy, *Skiing Trauma and Safety: Eleventh International Symposium, ASTM STP 1289*, R. J. Johnson, Ed., American Society for Testing and Materials, 1997, pp. 37-48.

“Epidemiology of Snowboarding Injuries: 1988 to 1995”, J. E. Shealy, C. F. Ettlinger, and V. Buonomo, *Skiing Trauma and Safety: Eleventh International Symposium, ASTM STP 1289*, R. J. Johnson, Ed., American Society for Testing and Materials, 1997, pp. 49-59.

“The effects of Complex Forearm Posture on Wrist Range of Motion,” Marshall, M. M., Mozrall, J. R., and Shealy, J. E., 41st Annual Meeting of the Human Factors and Ergonomics Society, Albuquerque, NM, 1997.

“Range of Motion for Complex wrist Movements,” Marshall, M. M., Mozrall, J. R., and Shealy, J. E., 6th Annual Industrial Engineering Research Conference, Miami Beach, FL, 1997.

"Ski Injuries Among Ski Area Employees," Belanger, M., Ettlinger, C. F., R. J. Johnson, and J. E. Shealy, *Skiing Trauma and Safety: Tenth International Symposium, ASTM STP 1266*, C. D. Mote, R. J. Johnson, Wolfhart Hauser, and Peter S. Schaaf, Eds., American Society for Testing and Materials, 1996, pp. 25-35.

"Gender Related Injury Patterns in Snow Skiing", Shealy, J. E., and Ettlinger, C. F., *Skiing Trauma and Safety: Tenth International Symposium, ASTM STP 1266*, C. D. Mote, R. J. Johnson, Wolfhart Hauser, and Peter S. Schaaf, Eds., American Society for Testing and Materials, 1996, pp. 45-57.

"Death in Downhill Skiing from 1976 to 1992; A Retrospective View," Shealy, J. E., and Thomas, T., *Skiing Trauma and Safety: Tenth International Symposium, ASTM STP 1266*, C. D. Mote, R. J. Johnson, Wolfhart Hauser, and Peter S. Schaaf, Eds., American Society for Testing and Materials, 1996, pp. 66-72.

"Tibial Plateau Injuries in Snow Skiing," with R. J. Johnson, C. F. Ettlinger, and Ellowitz, A. S., *Skiing Trauma and Safety: Tenth International Symposium, ASTM STP 1266*, C. D. Mote, R. J. Johnson, Wolfhart Hauser, and Peter S. Schaaf, Eds., American Society for Testing and Materials, 1996, pp. 295-302.

"A Method to Help Reduce the Risk of Serious Knee Sprains in Alpine Skiing", C. F. Ettlinger, R. J. Johnson, and J. E. Shealy, *American Journal of Sports Medicine*. October, 1995, Vol. 23, No. 5, pp. 531-537

"Helmets for Recreational Skiers and Snowboarders: An Idea Whose Time has come?" with C. F. Ettlinger, presented at the August 1995 F27 meeting in Burlington, VT

"Gender and Age Related Skiing Injury Patterns", with R. J. Johnson, and C. F. Ettlinger, presented at the Eleventh International World Congress of the International Society for Skiing Safety, Voss, Norway, April 1995.

"Snowboarding Injuries", with B. Huber, D. L. Beskind, R. J. Johnson, and C. F. Ettlinger, presented at the Eleventh International World Congress of the International Society for Skiing Safety, Voss, Norway, April 1995.

"Knee Injuries and Ski Equipment Factors", with C. F. Ettlinger and R. J. Johnson, presented at the Eleventh International World Congress of the International Society for Skiing Safety, Voss, Norway, April 23-29, 1995.

"Reduction of the Risk of Serious Knee Sprain in Alpine Skiing Through Skier Education", with R. J. Johnson, and C. F. Ettlinger, presented at the Eleventh International World Congress of the International Society for Skiing Safety, Voss, Norway, April 23-29, 1995.

"ACL Awareness Education for the Recreational Skier", with R. J. Johnson, and C. F. Ettlinger, presented at the Eleventh International World Congress of the International Society for Skiing Safety, Voss, Norway, April 23-29, 1995.

"An Undergraduate Human Factors Workbook," Mozrall, J. R., and Shealy, J. E., 39th Annual Meeting of the Human Factors and Ergonomics Society, San Diego, CA, 1995.

"Effects of Age and Gender on Human Bone Strength and its Relevance to Snow Skiing and Snow Skiing Standards," with Peter Kogut, MD, presented at the Tenth International World Congress of the International Society for Skiing Safety, Zell am See, Austria, May 17-21, 1993.

"Skier Injury Trends: 1972-1992," with Robert Johnson, and Carl Ettlinger, presented at the Tenth International World Congress of the International Society for Skiing Safety, Zell am See, Austria, May 17-21, 1993.

"Ski Injury Trends - 1972-1990" Johnson, J. R., Ettlinger, C. F. and Shealy, J. E.; *Ski Trauma and Skiing Safety: Ninth International Symposium, ASTM STP 1182*, Robert J. Johnson, C. D. Mote, Jr., and John Zelcer, Eds., American Society for Testing and Materials, Philadelphia, 1993, pp. 11-22.

"Comparison of Downhill Injury Patterns, 1978-81 vs. 1988-90" Shealy, J. E.; *Ski Trauma and Skiing Safety: Ninth International Symposium, ASTM STP 1182*, Robert J. Johnson, C. D. Mote, Jr., and John Zelcer, Eds., American Society for Testing and Materials, Philadelphia, 1993, pp. 23-32.

"Snowboard vs. Downhill Skiing Injuries," Shealy, J. E.; *Ski Trauma and Skiing Safety: Ninth International Symposium, ASTM STP 1182*, Robert J. Johnson, C. D. Mote, Jr., and John Zelcer, Eds., American Society for Testing and Materials, Philadelphia, 1993, pp. 241-254.

"Knee Injuries in Skiing," J. E. Shealy, presentation to the Main Committee of ASTM F27 March 1993 Las Vegas, NV semiannual meeting.

"Ergonomics of Materials Handling using Overhead Bridge Cranes", with Wendy Stibitz; *Proceedings; Materials Handling Institute Annual Meeting*, February 1993, Chicago, Illinois.

"What motivates Workers to do Things that are Unsafe?" Invited keynote speaker to Ryder Corporate Annual Safety Conference, December 1992, Miami, Florida.

"Effects of Mass on Wrist Velocities and Accelerations", with Wende Latko; *Proceedings; Human Factors Society 36th Annual meeting*, October, 1992, Atlanta, GA.

"Biomechanical Analysis of Upper Extremity Risk in Sign Language Interpreting" with M. Feuerstein and Latko, *J of Occupational Rehabilitation*, Vol. 1, No. 3, 1991, pp. 215-223.

"Biomechanical Analysis Methodology for Sign Language Interpreting", Shealy, J. E., Feuerstein, M., Latko, W.; *Proceedings; Human Factors Society 35th Annual Meeting*, September 1991.

Physiological, Psychological and Cognitive Aspects of Human Performance, 7th Edition: Shealy, J. E., and J. Reynolds. (A laboratory manual/workbook for the Human Factors Laboratory of the Industrial Engineering Program) RIT, Rochester, New York. Copyrighted 1987, 1988, 1989, 1990, 1991, 1992, 1995

"Femoral Shaft Fractures Resulting from Alpine Skiing Injuries", Johnson, R. J., Ettlinger, C. F., and Shealy, J. E.; *Skiing Trauma and Safety: Eighth International Symposium, ASTM STP 1104*, C. D. Mote, Jr. and Robert J. Johnson, Eds., American Society for Testing and Materials, Philadelphia, 1991, pp. 152-157.

"A Relative Analysis of Downhill and Cross-Country Ski Injuries", Shealy, J. E. and Miller, D. A.; *Skiing Trauma and Safety: Eighth International Symposium, ASTM STP 1104*, C. D. Mote, Jr. and Robert J. Johnson, Eds., American Society for Testing and Materials, Philadelphia, 1991, pp. 133-143.

"Skier Injury Trends", Johnson, R. J., Ettlinger, C. F., and Shealy, J. E.; *Ski Trauma and Safety: Seventh International Symposium, ASTM STP 1022*. R. J. Johnson, C. D. Mote, M. H. Binet, Eds. American Society for Testing and Materials, Philadelphia, 1989, pp. 25-31.

"Snowboarding Injuries on Alpine Slopes", J. E. Shealy and P. D. Sundman; *Ski Trauma and Safety: Seventh International Symposium, ASTM STP 1022*. R. J. Johnson, C. D. Mote, M. H. Binet, Eds. American Society for Testing and Materials, Philadelphia, 1989, pp. 75-81.

"Dorsiflexion of the Human Ankle as it Relates to Ski Boot Design in Downhill Skiing," J. E. Shealy and D. A. Miller; *Ski Trauma and Safety: Seventh International Symposium, ASTM STP 1022*. R. J. Johnson, C. D. Mote, M. H. Binet, Eds. American Society for Testing and Materials, Philadelphia, 1989, pp. 146-152.

"The In-Boot Fracture," J. E. Shealy and C. F. Ettlinger; *Skiing Trauma and Safety: Sixth International Symposium, ASTM STP 938*, C. D. Mote, Jr. and R. J. Johnson, Eds., American Society for Testing and Materials, Philadelphia, 1987, pp. 113-126.

"Knee Injuries in Downhill Skiing; A Review of the Scientific Literature," presented at the Spring Meeting of ASTM F27 Ski Equipment Standards Committee, March 1986, Las Vegas, NV

"Analysis of Cross-Country Skiing Injuries from a Systems Perspective," presented at the Spring Meeting of ASTM F27 Ski Equipment Standards Committee, March 13, 1985, Las Vegas, NV

"Causes of Death in Down-Hill Skiing," presented to the American Academy of Orthopaedic Surgeons Winter Sports Injuries Course, March 4-8, 1985, Sun Valley, ID

"Use of Statistics in Identifying Problems in Ski Injury Research," *Skiing Trauma and Safety: Fifth International Symposium, ASTM 860*, R. J. Johnson and C. D. Mote, Jr., Eds., American Society for Testing and Materials, Philadelphia, 1985, pp. 285-292.

"A Comparison of Downhill Injuries to Cross-Country Skiing Injuries," *Skiing Trauma and Safety: Fifth International Symposium, ASTM 860*, R. J. Johnson and C. D. Mote, Jr., Eds., American Society for Testing and Materials, Philadelphia, 1985, pp. 423-432.

"Overall Analysis of NSAA/ASTM Data on Skiing Injuries for 1978 Through 1981," *Skiing Trauma and Safety: Fifth International Symposium, ASTM 860*, R. J. Johnson and C. Mote, Jr., Eds., American Society for Testing and Materials, Philadelphia, 1985, pp. 302-313.

"Death in Downhill Skiing," *Skiing Trauma and Safety: Fifth International Symposium, ASTM 860*, R. J. Johnson and C. Mote, Jr., Eds., American Society for Testing and Materials, Philadelphia, 1985, pp. 349-357.

"Analysis of Accidents as a Means of Generating Effective Intervention Strategies in Hazardous Situations," invited paper at the International Business Machines Corporate Occupational Ergonomics Symposium, August 27-30, 1984, Boulder, CO.

Task Analysis as a means of generating training schemes, designing workplaces and identifying/analyzing accidents. Invited presentation at the International Conference on Occupational Ergonomics, sponsored by the International Ergonomics Association, May 8, 1984, Toronto, Canada.

Techniques of Accident Reconstruction in determination of contributing factors in accident causation. Invited presentation to the 1983 Annual Meeting of the New York Society of Professional Engineers.

"Two Year Statistical Analysis of Skiing Injuries at 13 Selected Areas in the USA," *Ski Trauma and Skiing Safety IV*, W. Hauser, J. Karlsson, and M. Magi, Eds., Technischer Überwachungs-Verein Bayern a. V., Munich, 1982, pp. 207-216.

"An Investigation of Ski Binding Settings Based Upon Minimum Retention Requirements," J. E. Shealy and C. F. Ettlinger, *Ski Trauma and Skiing Safety IV*, W. Hauser, J. Karlsson, and M. Magi, Eds., Technischer Überwachungs-Verein Bayern a. V., Munich, 1982, pp. 113-120.

"Decision Making under Conditions of Uncertainty," September 1980, invited key note address to the annual RIT Opening Day Ceremonies.

An Ergonomic Analysis of an Assembly Line (2300 line) Technical Report; Xerox, Webster, NY, January 1980

"Theories of Accident Causation," presented at the 1979 SAE Congress, Cobo Hall, Detroit, MI. March 1980

"The Effect of Theories of Accident Causation on Accident Data Base Formations," presented at the 1979 Annual Meeting of the American Society of Safety Engineers, San Francisco, CA.

"Theories of Accident Causation: Implications for Design," *Proceedings of the 23rd Annual Human Factors Society meeting*, 1979, Detroit, Michigan.

"Risk-taking in Manual Materials Handling," presented at the National Institute of Occupational Safety and Health International Symposium on Safety in Manual Materials Handling, July, 1978, Buffalo, New York. Published as a chapter in *NIOSH Manual Materials Handling*. US Government Printing Office, 1977.

"Role of Human Factors in a Manufacturing Environment," *Proceedings of the 1977 Spring Annual Conference of the American Institute of Industrial Engineers*, Dallas, Texas, 1977.

"ASTM Standards for Ski Binding Performance," *Proceedings of the 6th International Ergonomics Association Congress*, College Park, Maryland, July 1976.

"Analysis of OSHA Reportable Accident/Injury Statistics," Technical Report HF-76-28, Eastman Kodak, Kodak Park, New York, October 1976, 96 pages

"Effectiveness of Anti-Friction Devices in Snow Skiing as a Function of Years Use," *Proceedings of the 19th Annual Meeting of the Human Factors Society*, October 1975.

"Effects of Static Settings on Binding Function," presented at the August 1975 meeting of the ASTM F8.14 subcommittee for Ski Equipment Standards, Las Vegas, Nevada

"Epidemiology of Ski Injuries: Effect of Method of Skill Acquisition and Release Binding Values on Accident Rates," J. E. Shealy, L. H. Geyer, and R. Hayden, *Human Factors Journal*, Vol. 16, No. 5, 1974, pp. 459-473.

"Statistical Standards for Ski Injury Studies," presented at the March 1974 meeting of the ASTM F8.14 subcommittee for Ski Equipment Standards

Statistical Analysis for Engineers, 500 page workbook to accompany a series of videotape presentations on Statistical Analysis. Rochester Institute of Technology, Rochester, New York, 1974.

"CALSPAN Technical Report YG-5238-K-1: Ski Binding Retention, a Comparative Study," Buffalo, New York, 1973, 35 pages.

"Ski Release Bindings: Comparison of Static Settings and Accident Rates in a Closed Population," *Proceedings: 17th Annual Meeting of the Human Factors Society*, 1973.

Author and/or contributor of over 50 review articles on various aspects of ski injury research from 1974 to the present in various Ski Trade journals, newsletters, and magazines.