

## CURRICULUM VITA

Donald S. Blowski Ph.D., P.E., CPE  
University of Utah  
Dept of Mechanical Engineering  
50 S Central Campus Drive, Room 2110  
Salt Lake City, Utah 84112-9208

VOICE (801) 581-4163      FAX (801) 585-5261  
blowski@mech.utah.edu

### DEGREES:

B.S. Mechanical Engineering, Michigan State University, 1969

M.S. Industrial Engineering, Texas A&M University, 1971  
Thesis: "Tracking Decrement as a Result of Grip Holding Endurance"

M.A. Human Relations, University of Oklahoma, 1978  
Research: "A Review of the Supervisor-Subordinate Relationship in the Bureaucratic Environment"

PhD Industrial and Operations Engineering, University of Michigan, 1986  
Dissertation: "Ladder Climbing: A Dynamic Biomechanical Model and Ergonomic Analysis", Committee Chair: Dr. Don B. Chaffin

### PROFESSIONAL EXPERIENCE (Most recent first):

**Professor**, Department of Mechanical Engineering, University of Utah, July 2004 - present.  
**Associate Professor**, Department of Mechanical Engineering, University of Utah, July, 1993- June 2004.

**Chair, Design, Manufacturing and Controls Division**, Department of Mechanical Engineering, University of Utah, January 1993 - September 1994; July 1996 - present.

**Assistant Professor**, Department of Mechanical Engineering, University of Utah, September 1986 - June, 1993.

(Adjunct Professor in Department of Family and Preventive Medicine, Department of Bioengineering, Division of Physical Therapy, and Division of Occupational Therapy)

Academic area of specialization - ergonomics, biomechanics, safety engineering, rehabilitation ergonomics, work methods and standards. Responsible for development and teaching introductory and advanced lecture and laboratory courses in safety, ergonomics, work methods and production engineering. (Specific courses and other teaching activities are listed later.)

Research interest - low back and musculoskeletal hazards during occupational activities, ergonomic expert systems, rehabilitation engineering, slip/fall safety, climbing biomechanics. Responsible for establishment and operation of the Ergonomics and Safety Laboratory in the Department of Mechanical Engineering. Summary of graduate supervision (Students, degrees, etc. are listed later):

**Director Ergonomics and Safety Program**, Rocky Mountain Center for Occupational and Environmental Health (RMCOEH) Department of Family and Preventive Medicine, University of Utah, July 1986 - Present.

Establish program content and direction for the Ergonomics and Safety Core for RMCOEH. Establish trainee (student) selection criteria and qualifications.

Recruit, select, and hire research and adjunct faculty to teach academic and short courses in safety and ergonomics.

Develop and present training and outreach programs within Utah and Intermountain Region.

**President, Industrial Ergonomics Incorporated**, 5220 Emigration Canyon, Salt Lake, City, Utah, Jan 1988 - Present

Training, consultation, and expert witness testimony emphasizing the ergonomic and biomechanical analysis of occupational hazards.

**Ergonomics Consultant**, Ann Arbor, MI and Salt Lake, City, Utah, July 1982 - Jan 1988

Consultation, training, and expert witness testimony emphasizing the ergonomic and biomechanical analysis of occupational hazards.

**Ph.D. Student, Teaching and Research Assistant** (Ind. & Operations Eng.), Center for Ergonomics, The University of Michigan, September 1979 - 1986

Research and teaching assistant in ergonomics, occupational biomechanics and safety.

**Senior Project Engineer**, J.M. Miller Engineer, Inc., Ann Arbor, MI , January 1980 - January 1985

Project management and experimental research in occupational safety including vehicle access/egress, worker dynamic strength capability, and climbing safety.

**Director of Engineering (Civilian)**, U.S. Army Depot Activity, Ober Ramstadt, West Germany, October 1977 - July 1979

Supervise five plant engineering and administrative personnel, responsible for all long and short range equipment and facilities design, program development, justification and budgeting. (Budget approximately \$1,500,000/yr.)

Coordinate plant health, safety, and environmental matters with German federal and state authorities. Coordinate with local city government on matters of mutual interest (pollution control, purchased utilities, social matters).

**Plant Engineer and Comptroller (Civilian)**, U.S. Army Depot Activity, Ober Ramstadt, West Germany, June 1973 - October 1977

Supervise eight management and budget personnel, plan and justify all equipment, maintenance, and new work projects.

Plant Safety Officer for 6 months. Supervisor of Plant Safety Officer for 1 1/2 years.

**Industrial Engineer (Civilian)**, U.S. Army Munitions Command HQ, Dover, New Jersey., May 1971 - June 1973

Develop and implement work measurement system and perform methods studies in headquarters with approximately 700 administrative personnel.

**Production Design Engineering Intern (Civilian)**, U.S. Army Logistics Intern Training Center, Texarkana, Texas, July 1969 - May 1971

Design and develop short-term production engineering and quality control projects.

## **TEACHING ACTIVITIES:**

Courses taught by Dr. Bloswick:

IE 101 Introduction to Industrial Engineering	
IE 465 Work Methods and Measurement	
ME 130 Statics	
ME 5100/6100 Ergonomics	Developed by Bloswick
ME 5110/6110 Industrial Safety	Developed by Bloswick
ME 7110 Systems Safety	Developed by Bloswick
Bio 6230 Functional Anatomy for Engineers	Developed by Bloswick, Baker (student)
ME 7100 Adv Ergo & Occ Biomech	Developed by Bloswick
ME 7105 Adv Ergo & Occ Bio Lab	Developed by Bloswick

Dr. Bloswick presents regular/annual lectures on ergonomics in:

- Engineering Design and Visual Communication (ME 1000)
- Professionalism and Ethics Seminar (ME 3900)
- Mechanical Engineering Design (ME 4000)
- Interdisciplinary Seminar in Safety and Health (FPMD 6740)
- Occupation and Practice - Theory II (OC TH 6220) (6 hours/yr)
- Orthopedic Medical Lectures (PT TH 6220) (6 hours/yr)
- USU Industrial Hygiene Program (3 hours/yr)

Dr. Bloswick has made guest lectures and presentations in:

UU Department of Mechanical Engineering Graduate Seminar  
 UU Department of Bioengineering Graduate Seminar  
 UU College of Mines Graduate and Undergraduate Seminar  
 UU Department of Family and Preventive Medicine Academic Program  
 UU Materials Science & Engineering Junior Seminar  
 UU Physicians Assistant Program Academic Program  
 UU Department of Exercise Science Academic Program  
 UU Laboratory Safety Seminar  
 UU/USU Collaborative Class on Agriculture Safety  
 Weber State University Nursing Continuing Education Program

Dr. Bloswick has supervised approximately 20 senior design projects including:

Half-step cane modifications (3 groups)  
 Typing Assist for people with CP  
 Modified reach extender  
 Modified crutches  
 Foot propelled wheelchair  
 Exoskeleton design lift assist (2 groups)  
 Arm support for stair climbing assist (2 groups)  
 Grip extender for senior citizens (2 groups)  
 Automatic wheelchair brake  
 Hand crank wheelchair carriage (2 groups)  
 Hand propelled wheelchair with friction brake

**GRADUATE STUDENTS SUPERVISED:**

Student	Degree <i>(Mech Eng unless noted)</i>	Date	Thesis or Research Project
Grant Harvey	M.S.	6/87	Slips, Trips and Falls on Level Surfaces, Stairs and Ladders, and Vehicles: The Development and Application of an Engineering and Legal design Paradigm.
Arnold Love	M.S.	3/88	Slips and Falls During Manual Material Handling Activities. (reviewed conference proceedings and journal submission)
Jim Weiler	M.E.	3/88	Empirical Evaluation of Posture During Manual Material Handling Activities: Applications of NIOSH Work Practices Guide Parameters to Biomechanical Model Analysis. (Refereed conference proceeding)

Student	Degree ( <i>Mech Eng unless noted</i> )	Date	Thesis or Research Project
Chris Henderson	M.E.	3/88	Analysis of Upper Extremity Cumulative Trauma Disorders in Mechanical Assembly.
Jon Howell	M.E.A.	6/89	
Tom Scallorn	M.E.	6/89	Validation of NIOSH Work Practices Guide in Industrial Operation.
Chell Roberts	M.S.	9/89	Model of MGM Grand Fire: Escape Activities
Jim Woodruff	M.E.	6/90	Analysis of Manual Material Handling Activities in Hazardous Waste Storage Operations.
David Sebesta	M.E.	3/91	Development and Analysis of an Improved Mail Bag.
Brett Besser	M.P.H. (Public Health)	6/91	Evaluation of OSHA Video Tape Evaluation Methods for Ergonomic Hazards.
Keith Motley	M.P.H. (Public Health)	6/91	An Evaluation of the Effectiveness of Musculoskeletal and Upper Extremity Cumulative Trauma Hazard Abatement Programs Implemented in Response to OSHA Citations.
Ed Zimowski	M.P.H. (Public Health)	6/91	An Evaluation of the Effectiveness of Musculoskeletal and Upper Extremity Cumulative Trauma Hazard Abatement Programs Implemented in Response to OSHA Citations.
Jeff Bean	M.E.	9/91	Development of an Improved Tricycle Type Exercise Device for Children with Cerebral Palsy. (Patent pending)
Russ Higley	M.E.	9/91	Development of Material Handling Training Program for Mine Personnel.
Paul Smutz	Ph.D.	9/91	Carpal Tunnel Syndrome Etiologies Resulting From Work Processing: An Investigation Into the Effect of Low Force High Frequency Finger Movements. (Several refereed/reviewed conference proceedings and journal submissions.)
Pierre Gohier	M.E.	6/92	Development of a Force Transducer to Measure Foot Forces During Cycling

Student	Degree ( <i>Mech Eng unless noted</i> )	Date	Thesis or Research Project
Eric King	M.S.	3/93	Evaluation of a Device to Exercise Hip Extensor Muscles in Children with Cerebral Palsy: A Clinical and Field Study.
Kyle Bowen	M.E.	6/93	Assessment of Static Coefficient of Friction Between Barefeet and Bathroom Flooring Surfaces Under Dry, Wet, and Soapy Conditions.
Jon Erickson	M.S.	6/93	A Subjective Evaluation of Three Alternative Wheelchair Designs for use by Geriatric Patients. (Invention disclosure to UU Technology Transfer 10/92.)
Tom Niederee	M.S.	6/93	An Analysis of Utah Agricultural Accidents from 1989 Through 1991 Using Hospital Emergency Room Logs
Dan Baker	Ph.D.	9/93	Sagittal Plane Dynamics of the Human Spine in Vivo.
Mark Dumas	M.S.P.H. (Public Health)	9/93	Analysis of Video Taped Tasks Involving Upper Extremity Cumulative Trauma Risk Factors: Validity and User Bias. (Refereed conference proceedings) (Also completed I.H. track.)
Bill Mecham	M.E.	9/93	The Effect of Heel Height and Fatigue on Gait and Slip Tendency in Women with Prediction Equations for Slip Tendency
Scott Vincent	M.Phil.	9/93	N/A
Frank Falvo	M.E.	3/94	Safety Program Enhancement Through Program Mission Documentation.
Paul Brown	M.S.	6/94	The Effect of Ergonomics Training and Splint Use on Grocery Checker Posture.
Steve Erickson	M.P.H. (Public Health)	6/94	N/A
Ben Shirley	M.S.	6/94	An Evaluation of Two Alternative Wheelchair Designs to Aid Geriatric Nursing Home Residents.
Peter Budnick	Ph.D.	6/95	Expert System and Hypermedia Methods for the Inclusion of Ergonomics into Concurrent Design Processes
Holly Wick	M.S.	9/95	The Effect of Ergonomic Stress Factors on

Student	Degree ( <i>Mech Eng unless noted</i> )	Date	Thesis or Research Project
			Assembled Product Quality
Brent Bowers	M.S.	12/95	A Systems Approach to Ergonomic Video Display Terminal Workstation Design
Chris Dansie	M.S.	12/95	An Investigation Into the Feasibility of Using Internet-Based Virtual Reality Applications in Ergonomics
Jeremy Adams	M.P.H. (Public Health)	6/96	Development of Community Based Wellness Program
Geping Cheng	Ph.D.	6/96	The Effect of Vibration and Helmet Design as on Neck Muscle Fatigue (Co-advise with Susan Lantz)
Arun Kesavan	M.E.	6/96	Development of an Effective Search Method for an On-Line Web Site: ErgoWeb
Eric Liao	M.E.	6/96	Prototype of Toilet Lifting System Design
Kent Wengert	M.P.H. (Public Health)	6/96	Ergonomic Hazards in Metal Shop Activities
Sandeep Khatkhate	M.E.	8/96	Design and Development of a Database Model for the Location of Ergonomics Resources Using an On-line Website: ErgoWeb
Jon Paulsen	M.E.	8/96	Internet Based Upper Extremity Hazard Analysis
Gohua Shen	M.S.	3/97	Posture Based Lifting Training Tool with an Immediate Feedback: A Pilot Study
Richard Kent	M.S.	6/97	Modeling of Vehicle-Pole Frontal Impact
Brian McQuivey	M.E.	6/97	Impact Assessment of the Clean Air Act of 1990 and National Emission Standards for Hazardous Air Pollutants (NESHAPs) on the Space Shuttle Solid Rocket Motor
Pat Armstrong	M.E.	8/97	Ergonomic Considerations at an Intermountain Health Care Facility
Tim Villnave	M.S.P.H. (Public Health)	12/97	Development of Internet-Based Ergonomic Training Materials
Ben Gerlach	M.P.H.	3/98	Development of an Ergonomics Training Program for Utah Small Business
Kirt Sasser	M.E.	3/98	Internet Based Ergonomic & Safety

Student	Degree ( <i>Mech Eng unless noted</i> )	Date	Thesis or Research Project
			Resource Index
James Blaufus	M.E.	5/99	Back Stress in Nurses Handling Critically Ill Patients.
Mike Geslin	M.E.	5/99	Safety Evaluations of Missile Demilitarization Procedure
Bret Harper	M.S.	5/99	A Comparison of VDT Keyboard Systems
Nolan Merrit	M.E.	5/99	Ergonomic Evaluation of Fire Door Fabrication Procedures
Trond Pederson	M.E.	5/99	Evaluation and Testing of Powered Syringe
Mike Oren	M.E.	12/99	Ergonomic Considerations in Aircraft Inspection
Richard Sesek	Ph.D.	12/99	Development of an Improved Ergonomic Analysis Tool for Industrial Operations
Sasathorn Phaspinyo	M.E.	5/00	Evaluation of Tasks Presented in The Utah Allen Decision
Mike Brown	M.P.H. (Public Health)	8/00	Development of a Hearing Conservation Program for Small Business
Russ Elbell	M.S.P.H. (Public Health)	8/00	Peer vs. Professional Wellness Training
Chris Silvia	M.S.P.H. (Public Health)	8/00	Evaluation of Mechanically Assisted Patient Transfer
Brad Whittaker	M.S.P.H.	5/01	Evaluation of OSHA Tranching Standard
Jiannan Zhou	Ph.D.	5/01	Consideration of Procedure Constraints and Ergonomics in Assembly Planning (Co-advise with Don Brown)
Mehdi Khalighi	Ph.D.	5/01	Analysis of the Effect of Provocative Posture on Vibrotactile Testing for Carpal Tunnel Syndrome
Nathan Shirley	M.E.	5/01	Presentation of Internet Based Ergonomics and Safety Educational Material for the Undergraduate Engineering Curriculum
Richard Barlow	M.E.	12/01	Design & Testing of Improved Lift Seat Wheelchair

Student	Degree ( <i>Mech Eng unless noted</i> )	Date	Thesis or Research Project
Phillip Drinkaus	M.S.	12/01	Evaluation of Existing Ergonomic Analysis Tools in Auto Parts & Assembly Operations
Kim Jones	M.S.	12/01	Evaluation of the Effect of Repetition on Injuries and Symptoms in Auto-Assembly Tasks
Ben Kempe	M.S.	12/01	Investigation of the Effect of Sensory Deficit Resulting from Finger Loading
Mark Warner	M.S.	12/01	Evaluation of the Effect of Torso Rotation and Cumulative Load on MSDs in Auto Plants
Mike Nelson	M.P.H. (Public Health)	5/02	Analysis of Federal & State Ergonomic Standards Activity
Glen West	M.S.	5/03	Ergonomics of Hand Wheel Operation
Lowell Beck	M.E.	5/04	Upper Extremity Vibration Analysis of Production Operation
Phillip Drinkaus	Ph.D.	5/04	Case Control Study of Ergonomic Analysis Methods in Industry
George LaFiguera	M.S.	5/04	The Effect of Arm Supports on Musculoskeletal Stress During Typing
Spencer Reese	M.S.	8/04	The Effect of Tendon Force and Wrist Posture on Vibrotactile Sensitivity
Eric Ellis	M.S.	12/04	UECTD's in Sewing Operators
Andrew Huff	M.E.	12/04	Development of Confined Space and Lockout/Tagout Procedure for Small Utah Municipalities
Mark Warner	Ph.D.	12/04	The Effect of Torso Rotation on Annulus Fibrosis Strain
Zack Evans	M.S.	12/04	Development and Testing of a Hand-Propelled Wheelchair Track
Katherine Wagner	M.E.	12/04	A Review of Overhead Falls in Steel Erection
Ron Nordhagen	M.S.	5/05	Development of a Model for Automobile Rear Impact Into Poles
Matthew Reading	M.S.	8/05 (exp)	A Comparison of Ergonomic Analysis Tools in Jobs with High Rotation
Juan	M.S.	8/05 (exp)	Inter-Rater Reliability in UEMSD Risk

Student	Degree ( <i>Mech Eng unless noted</i> )	Date	Thesis or Research Project
Rodriguez			Factor Analysis
Andrew Merryweather	M.S.	8/05 (exp)	Development of a Depalletizer Ergonomic Analysis Tool
Saied Mortazavi	M.S.	8/05 (exp)	
Chad Ball	M.E.	12/05 (exp)	Not yet known (Thiokol)
Ken Ball	M.E.	12/05 (exp)	Not yet known (Thiokol)
Tariq Mughal	M.E.	12/05 (exp)	Management of Technology
Bill Reimann	Ph.D.	12/05 (exp)	Provocative Wrist Deviation and Fingertip Vibration Sensitivity (co-advise with Richard Sesek, Mechanical Engineering)
Jennifer Werner	M.S.	5/06 (exp)	Unknown
Bill Mecham	Ph.D.	12/06 (exp)	UECTD's in Assembly Work with High Task Rotation
Erik Groberg	Ph.D.	12/07 (exp)	The Effect of Torso Rotation on Intervertebral Disc Pressure (co-advise with Kent Bachus, Bioengineering)
Bryan Howard	Ph.D.		Undecided (started 6/05)

Since 1988 other student committee memberships include the following:

Student	Degree ( <i>Mechanical Engineering unless noted</i> )	Grad Date	Advisor
Holliday, John	M.E.	1988	Baum
Mensah, Nii-Ansah	M.E.A.	1988	Turley
Miller, Laurel	M.E.A.	1988	Baum
Rogerson, Ronald	M.E.A.	1988	Turley
Sadri, Cyrud	M.S.	1988	Turley
Sun, Ruey-Horng	M.S.	1988	Turley
Tolle, Melinda	M.S.	1988	Sandquist
Aslakson, John	M.E.	1989	Baum
Christensen, Vern	M.E.A.	1989	Baum

<b>Student</b>	<b>Degree (<i>Mechanical Engineering unless noted</i>)</b>	<b>Grad Date</b>	<b>Advisor</b>
Graehl, David	M.S.	1989	Turley
Holt, Ken	M.E.A.	1989	Baum
Jessen, Frank	M.E.A.	1989	Turley
Kumar, Nirmal	M.E.A.	1989	Turley
Libsch, Karl	M.E.A.	1989	Baum
Robison, Larry	M.E.A.	1989	Baum
Hurley, James	M.E.A.	1990	Baum
Richtel, Steven	M.E.A.	1990	Baum
Woo, Kangsee	M.S.	1990	VanMoorhem
Gerber, Ann Howard	M.S. (Ex and Sports Science)	1991	Johnson
Mosser, Mark	M.S.	1991	Hoeppner
Popp, Roberta	M.S.P.H. (Public Health)	1991	Meservy
Seshadri, Rajesh	M.S.	1991	Brown
Winnans, Linda	M.S.P.H. (Public Health)	1991	Meservy
Block, Randy	M.E. (Bioengineering)	1992	Jacobsen
Bloomstrom, Gail	Ph.D. (Bioengineering)	1992	France
Chang, Chien-Chi	M.S.	1992	Lantz
Chou, Yi-Ching	M.S.	1992	Lantz
Eaton, Cynthia	M.S.	1992	Meek
Hale, Mary Jane	M.S.	1992	Chen
Howell, Glade	M.S.	1992	Brown
Sabbagh, Ammar	M.S.	1992	Hoeppner
Stonebrook, Scott	Ph.D. (Bioengineering)	1992	France
Subramanyan, Venkatesh	M.E.	1992	Brown
Goodwin, Robert R.	Ph.D. (Bioengineering)	1993	Daniels
Hwang, Kuo-Yen	Ph.D.	1993	Brown
Lui, Si-Hui	M.S.	1993	VanMoorhem
McClellan, Scott	M.S. (Bioengineering)	1993	France
Deshpande, Balachandra	M.S.	1994	Lantz
Hilton, Allen	M.S. (Bioengineering)	1995	Lantz
Shen, Yan-Ling	M.S.	1995	Lantz
Wenger, Karl	Ph.D. (Bioengineering)	1995	Bachus
Young, Mike	M.S.	1995	Brown

<b>Student</b>	<b>Degree (<i>Mechanical Engineering unless noted</i>)</b>	<b>Grad Date</b>	<b>Advisor</b>
Jensen, Lee	M.E.	1996	Lantz
Self, Brian	Ph.D. (Bioengineering)	1996	France
Smith, Jessica	M.E. (Bioengineering)	1996	Johnson
Chang, Chien-Chi	Ph.D.	1997	Brown
Hardy, Byron	Ph.D.	1997	Sandquist
Lueders, Kurt	M.S.	1997	DeVries
McCallister, Dave	M.S.	1997	Devasia
Van Os, LeRoy Mitchell	Ph.D. (Chem Eng.)	1997	Pershing
Christensen, Rob	M.S.	1998	Meek
Ampaichitt, Santiphong	M.E.	2000	
Clark, Paul	Ph.D.	2000	Hoeppner
Compton, Shaun	M.S.		Meek
Dibble, Lee	Ph.D.( Ex and Sports Science)	2000	Nicholson
Veillette, Pat	Ph.D. (Civil & Env Eng.)		Decker
Henderson, Robert	Ph.D.		Pershing
Hsieh, Yu-Lung	Ph.D.		Sandquist
Ingebretsen, David	Ph.D. (Bioengineering)		Rabbit
Moulis, Pat	Ph.D. (Bioengineering)		Lantz
Cowley, Matt	M.S.	2000	Meek
VanOrman, Todd	M.E.	2000	Hoeppner
Shang, Walter	M.E. (Bioengineering)	2001	Bachus
Ogilvie, Scott	M.E.	2002	Sandquist
Sabbagh, Mounir	M.S.	2002	Ligrani
Shinde, Sachin	M.S.	2002	Virkir
Arriscorreta, Carlos	M.S.	2003	Hoeppner
Nguyen , Bao	Ph.D. (Bioengineering)	2003	Bachus
Topham, Jason	M.E.	2004	Sandquist
Vader, Mark	M.S.	2004	Bachus
Jones, Kim	Ph.D.	2004	Hoeppner
Bhandari, Pushkaraj	M.S.	2004	Thomas
Cowley, Jason	M.S.	2005	Adams/DeVries
Shinde, Sachin	Ph.D.	2005	Hoeppner
Sorensen, Chris	M.S.	2005 (exp)	Adams

---

<b>Student</b>	<b>Degree</b> <i>(Mechanical Engineering unless noted)</i>	<b>Grad Date</b>	<b>Advisor</b>
Castleton, Clief	M.S.		Bamberg
Majersik, Loren	Ph.D.		Meek
Wadle, Kirby	M.S.		DeVries
Burnham, Tom	M.S.		Borgmeier

---

## GRANTS/CONTRACTS/GIFTS/PROPOSALS:

### FUNDED:

- Don Boswick, Program Director, "Ergonomics and Safety Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Hegmann, PI), pending, 7/1/05-6/30/06, \$136,920.
- Don Boswick, Program Director, "Occupational Injury Prevention Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Hegmann, PI), pending, 7/1/05-6/30/06, \$81,000.
- Don Boswick, Program Director, "Ergonomics and Safety Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Hegmann, PI), T42 CCT 810426-11, 7/1/04-6/30/05, \$136,920.
- Don Boswick, Program Director, "Occupational Injury Prevention Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Hegmann, PI), T42 CCT 810426-11, 7/1/04-6/30/05, \$50,000.
- Don Boswick, PI, Rich Sesek, Co-PI, "Documentation of Physical Workplace Stresses in Gas Industry Operations", KI29465, 6/1/04-6/1/06, \$69,968.
- Kurt Hegmann, PI, Don Boswick, Co-PI, "Collaborative Program for the Identification and Prevention of Work-Related Musculoskeletal Disorders", OH-03-006, 10/1/03-9/30/06, \$483,703.
- Don Boswick, Program Director, "Ergonomics and Safety Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Hegmann, PI), T42 CCT 810426-10, 7/1/03-6/30/04, \$149,260.
- Don Boswick, Program Director, "Occupational Injury Prevention Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Hegmann, PI), T42 CCT 810426-10, 7/1/03-6/30/04, \$140,600.
- Kurt Hegmann, PI, Don Boswick, Co-PI, "Upper Limb Musculoskeletal Disorders: Quantifying Risk", K016712, 10/1/02-9/30/06, \$800,730.
- Don Boswick, Program Director, "Ergonomics and Safety Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Hegmann, PI), T42 CCT 810426-09, 7/1/02-6/30/03, \$146,348.
- Don Boswick, Program Director, "Occupational Injury Prevention Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Hegmann, PI), T42 CCT 810426-09, 7/1/02-6/30/03, \$146,700.
- Don Boswick, Program Director, "Ergonomics and Safety Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), T42 CCT 810426-08, 7/1/01-6/30/02, \$93,586.
- Don Boswick, Program Director, "Occupational Injury Prevention Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), T42 CCT 810426-08, 7/1/01-6/30/02, \$147,700.
- Don Boswick, PI, "Wrist Flexion to Identify Carpal Tunnel Syndrome" Neuroscience Research, PID 21122093, 9/01-8/02, \$10,000.
- Don Boswick, PI, "Evaluation and Refinement of Ergonomic Survey Tools to Evaluate Worker Risk of Cumulative Trauma Disorders", UAW-Ford National Joint Committee on Health and Safety Grant, 6402G80207LOA MOD3, 4/00-5/01, \$59,000.

Don Blowski, Program Director, "Ergonomics and Safety Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), T42 CCT 810426-07, 7/1/00-6/30/01, \$83,468.

Don Blowski, Program Director, "Ergonomics and Safety Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), T42 CCT 810426-06, 7/1/99-6/30/00, \$81,216.

Don Blowski, PI, "Ergonomics Training", Allied Signal, 2000, \$6,920

Don Blowski, PI, "Ergonomics Training", CONOCO, 2000, \$11,900.

Don Blowski, PI, "Ergonomics Training", CONOCO, 1999, \$11,975.

Don Blowski, PI, "Development of Ergonomic and Safety Modules for Undergraduate ME Curriculum", National Safety Council Grant, PID 9906163, 1999, \$10,000.

Don Blowski, Program Director, "Ergonomics and Safety Program Support" Workers Compensation Fund of Utah Donation, 1999, \$12,500.

Don Blowski, Program Director, "Ergonomics and Safety Program Support" Workers Compensation Fund of Utah Donation, 1998, \$12,500.

Don Blowski, PI, "Development of Ergonomics and Safety Material for Undergraduate Mechanical Engineering Curriculum", Utah Labor Commission Grant, 991309, 1998, \$10,000.

Don Blowski, Program Director, "Ergonomics and Safety Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), T42 CCT 810426-05, 7/1/98-6/30/99, \$89,404.

Don Blowski, PI, "Development of Ergonomic Analysis Survey Tool", Ford Motor Company Grant , 6402G80207LOA MOD3, 4/1/98-12/30/00, \$245,432.

Don Blowski, Program Director, "Ergonomics and Safety Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), T42 CCT 810426-04, 7/1/97-6/30/98, \$125,844.

Don Blowski, PI, "Ergonomics Training" Becton Dickinson, 1997, \$10,000.

Don Blowski, PI, Don Brown, CO-PI, "Testing and development of ErgoWeb, an On-Line Ergonomics Resource", American Automobile Manufacturers Association, PID 9602040, 3/1/96-2/28/97, \$130,000.

Don Blowski, Program Director, "Ergonomics and Safety Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), T42 CCT 810426-04, 7/1/96-6/30/97, \$134,299.

Don Blowski PI, "Utah Risk Management Student Intern", 7/1/95-12/31/95, \$10,000.

Don Blowski, PI, Don Brown, CO-PI, "Testing and development of ErgoWeb, an On-Line Ergonomics Resource", American Automobile Manufacturers Association, UTAHSFY9CS170, 1/1/95-2/29/96, \$270,000.

Don Blowski, Program Director, "Ergonomics and Safety Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), T42 CCT 810426-03, 7/1/95-6/30/96, \$139,268.

Don Blowski, Program Director, "Ergonomics and Safety Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), T42 CCT 810426-02, 7/1/94-6/30/95, \$145,923 (direct costs).

Don Brown, PI, Don Blowski, CO-PI, "Integration of Ergonomic Design Criteria into Existing Process Engineering Methodologies-Phase 3", Motor Vehicle Manufacturers Association, 9120C1173, 10/15/93-12/31/94, \$217,998.

Don Blowski, Program Director, "Ergonomics and Safety Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), T42 CCT 810426, 7/1/93-6/30/94, \$155,814 (direct costs).

Don Blowski, PI, Armen Jalalian, CO-PI, "Ergonomics Assessment of Gas Industry Work, Phase I", Gas Research Institute, 50922522447, 10/1/92-3/30/95, \$317,847.

Don Blowski, Program Director, "Ergonomics and Safety Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), 5 T15 OHO 7141-15, 7/1/92-6/30/93, \$150,463 (direct costs).

Don Blowski, Borchard-Bennion Fellowship. Received for 1991-1994 to facilitate inclusion of community service in ME 515 "Ergonomics", \$9,000.

Don Brown, PI, Don Blowski, CO-PI, "Integration of Ergonomic Design Criteria into Existing Process Engineering Methodologies-Phase 2", Motor Vehicle Manufacturers Association, 9120C1173, 4/1/92-8/15/92, \$59,998.

Don Blowski, Program Director, "Ergonomics and Safety Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), 5 T15 OHO 7141-14, 7/1/91-6/30/92, \$117,216 (direct costs).

Don Blowski, Program Director, "Ergonomics and Safety Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), 5 T15 OHO 7141-14, 7/1/91-6/30/92, \$26,947 (direct costs).

Don Blowski, PI, Don Brown, CO-PI, "Integration of Ergonomic Design Criteria into Existing Process Engineering Methodologies-Phase 1", Motor Vehicle Manufacturers Association, 9120C1173, 4/1/91-12/30/91, \$70,116.

Don Blowski, Program Director, "Ergonomics and Safety Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), 5 T15 OHO 7141-13, 7/1/90-6/30/91, \$116,660 (direct costs).

Don Blowski, Program Director, "Ergonomics and Safety Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), 5 T15 OHO 7141-13, 7/1/90-6/30/91, \$30,002 (direct costs).

Daniel R. Baker, PI, Don Blowski, CO-PI, "Sudden Loading and Fatigue Effects on the Human Spine", National Institute for Occupational Safety and Health (NIOSH), RO3 OH02821-01, \$14,967 received 1990/91.

Don Blowski, PI, "Development of a Platform Surface to Minimize the Potential for Head/Neck Injury", U.S. Diving Foundation, \$13,900 received in 1991 (direct costs).

Don Blowski, PI, "Develop Safety Course Module for Electrical Engineering Circuits", National Institute for Occupational Safety and Health (NIOSH), RFQ 89-83 \$9,700, Complete 1991 (direct costs).

Don Blowski, Program Director, "Ergonomics and Safety Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), 5 T15 OHO 7141-12, 7/1/89-6/30/90, \$125,625 (direct costs).

Don Blowski, Program Director, "Ergonomics and Safety Research and Training", NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), 5 T15 OHO 7141-12, 7/1/89-6/30/90, \$26,558 (direct costs).

Don Blowski, PI, "Develop and present a 2-day workshop 'Safety for Engineering Faculty'", National Institute for Occupational Safety and Health (NIOSH), RFQ 89-84, April 1990, \$9,800.

Don Blowski, Gift from Morton International to support Ergonomics and Safety Program, September 1990, \$10,000.

- Don Blawick, Program Director, “Ergonomics and Safety Research and Training”, NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), 5 T15 OHO 7141-11, 7/1/88-6/30/89, \$106,000 (direct costs).
- Don Blawick, Program Director, “Ergonomics and Safety Research and Training”, NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), 5 T15 OHO 7141-11, 7/1/88-6/30/89, \$30,000 (direct costs).
- Don Blawick, Program Director, “Ergonomics and Safety Research and Training”, NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), 5 T15 OHO 7141-10, 7/1/87-6/30/88, \$87,396 (direct costs).
- Don Blawick, Program Director, “Ergonomics and Safety Research and Training”, NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), 5 T15 OHO 7141-10, 7/1/87-6/30/88, \$46,210 (direct costs).
- Don Blawick, Funds from University Teaching Committee to revise ME 516 “Industrial Safety” for undergraduate engineers, 1987/88, \$5,000.
- Don Blawick, Gift from Association of American Railroads to support Ergonomics and Safety Program, December 1986, \$10,000.
- Don Blawick, Program Director, “Ergonomics and Safety Research and Training”, NIOSH Education and Research Center (ERC) Training Grant (Moser, PI), 5 T15 OHO 7141-09, 7/1/86-6/30/87, \$65,000 (direct costs).

**SUBMITTED:**

- Don Blawick, PI, NIOSH, “Comprehensive Literature Search for Roofer Safety, Knowledge-Gaps Analysis, Recommendations for Fall Protection Research Focuses, and Technical Report,” 2000, \$91,518, Unfunded.
- Don Blawick PI, U.S. Diving Foundation, “Prevention of Head Injuries During Platform Diving”, Jan 1, 1994 - December 31, 1994, \$19,200 Approved, Unfunded.
- Don Blawick, PI, “Cooperative Agreement for Demonstration of an Ergonomic Intervention in the Red-meat Packing Industry”, DHHS-CDC-NIOSH RFP #275, October 1, 1992 - September 30, 1993, \$48,512, Approved, Unfunded.
- Don Blawick, PI, “Occupational and Environmental Health Studies: United States/Mexico Border Region (Continuation Project)”, Southwest Center for Environmental Research and Policy (EPA), July 1, 1993- June 30, 1994, \$198,812, Unfunded.
- Don Brown PI, Don Blawick CO-PI, “Spacetime Optimization to Reduce Musculoskeletal Injury”, Whitaker Foundation, \$179,916, Dec, 1991-Dec 1994, Unfunded.
- Don Brown PI, Don Blawick CO-PI, “Spacetime Optimization to Reduce Lifting Injury”, NIH, \$344,898, Dec, 1991-Dec 1994, Approved/Unfunded
- Peter Budnick, PI, Don Blawick, CO-PI, “Human Balance Disturbance After an External Disturbance”, DHHS PHS NIDCD, 1 R03 DC01020-01, (\$17,780), 1990, Approved/Unfunded.
- Paul Smutz, PI, Don Blawick, CO-PI, “Investigation of Carpal Tunnel Syndrome Etiology”, DHHS PHS CDC NIOSH 1, R03 OH02817-01, (\$14,996), 1990, Approved/Unfunded.
- Don Blawick, PI, “Assess IEMG Activity During Ski Simulation Training”, Proposal submitted to Scientific Sports Systems, (\$4,882), 1990, Unfunded.

Dr. Gerald Goodenough PI, Don Bloswick, CO-PI, (DFPM), “Reducing Frailty and Injuries in Older Workers”, NIH, (1st year = \$292,454), 1990, Unfunded.  
Don Bloswick, PI, Proposal submitted to The Motor Vehicle Manufacturers Association to “Assess the Effect of Environmental and Metabolic Load on Heat Stress” (\$61,082), 1988/89, Unfunded.

### **EDITOR/REVIEWER:**

Editorial Review Board (Ergonomics) and reviewer, 1998-Present, “Work”.  
Editorial Review Board (Ergonomics) and reviewer, 1990-Present, “Applied Occupational and Environmental Hygiene”.  
Reviewer for “The International Journal of Industrial Ergonomics”, “Ergonomics” “Applied Ergonomics” and “Journal of Mining Engineering”.  
Book reviewer for Taylor & Francis Books, Inc: “Biomechanics in Ergonomics and Therapy” by Shrawan Kumar.  
Book reviewer for CRC Press: “How Ergonomics Works” by John Brian Peacock.  
Textbook reviewer for Van Nostrand Reinhold: “Fundamentals of Biomechanics” by Nihat Ozkaya and Margareta Nordin.  
Reviewer of computer software for Lewis Publishers, Inc.  
Reviewer for Public Health Service, Center for Disease Control, National Institute for Occupational Safety & Health (NIOSH) research protocol entitled “Postural Stability and Motor Response Times During Scaffold End Frame Handling”.  
Reviewer for MONTS (Montanans On a New Trac for Science) entitled “Functional Demands and Constraints of Human Vertical Ascent”.  
Reviewer of abstracts for the 3<sup>rd</sup> Annual International Conference on Service-Learning Research.

### **TECHNICAL CONFERENCE INVOLVEMENT:**

Session Chair Canadian Human Factors Association Conference, Edmonton, Alberta, September 1988.  
Conference Organizer, Workshop on Integration of Safety and Health Into Engineering Curricula, Salt Lake City, UT, April 1990.  
Session Chair Annual International Industrial Ergonomics and Safety Conference, Denver CO, June 1992.  
Conference Organizer and Chair, NIOSH-sponsored Annual Regional NORA Young/New Investigators Symposium, Salt Lake City, UT, June 2003, May 2004, May 2005.

### **PUBLICATIONS/PRESENTATIONS:**

#### **A. BOOKS OR CHAPTERS:**

1. Moser, R., Meservy, D., Lee, J.S., Johns, R.E., & Bloswick, D.S., “Education and Management Aspects of Occupational and Environmental Health and Safety Programs”, in The Year Book of Occupational and Environmental Medicine,

- Year Book Medical, 1990.
2. Joseph, B. and Bloswick, D.S., “Ergonomic Considerations and Job Design”, in Occupational Hand and Upper Extremity Injuries and Diseases, Hanley and Belfus, 1991.
  3. Bloswick, D.S., “Occupational Safety”, in Industrial Engineers Handbook, Maynard ed, McGraw-Hill, 1991.
  4. Bloswick, D.S. and Burton, D.J., “Ergonomics and Human Factors”, in Industrial Hygiene Workbook, IVE, Inc., Salt Lake City, Utah, 1992.
  5. Budnick, P.M., and Bloswick, D.S., “Electric Engineering Safety”, 8-hour course module for undergraduate engineering education prepared for NIOSH, 1992.
  6. Bloswick, D.S. and Budnick, P.M., “An Introduction to Electrical Safety for Engineers”, in NIOSH Instruction Module, U.S. Department of Health and Human Services CDC, Cincinnati, Ohio, 1993.
  7. Johns, R.E., Elegante, J.M., Teynor, P.D., Swinyer, L.J., Bloswick, D.S., Colledge, A.L., “Fitness for Duty”, Disability Evaluation, edited by Steven L. Demeter, M.D., Mosby-Yearbook, Inc., St. Louis, Missouri, 1996.
  8. Bloswick, D.S., Golias, E., “An Ergonomic Analysis and Abatement Recommendations to Reduce Musculoskeletal Stress in Warehousing Operations: Case Study”, Occupational Ergonomics: Theory and Applications, edited by Amit Bhattacharya and James D. McGlothlin, Marcel Dekker, 569-580, 1996.
  9. Budnick, P.M., Bloswick, D.S., Brown D.R., “Ergonomics and Concurrent Design”, Occupational Ergonomics: Theory and Applications, Marcel Dekker, 719-732, 1996.
  10. Redfern, M.S. and Bloswick, D.S., “Slips, Trips, and Falls”, Musculoskeletal Disorders in the Workplace, edited by M. Nordin, Mosby-Year Book, Inc., 152-166, 1997.
  11. Joseph, B.S. and Bloswick, D.S. , “Ergonomic Job Analysis and Design”, Occupational Hand & Upper Extremity Injuries & Diseases, 2nd Ed, edited by Morton L. Kasdan, Hanley & Belfus, 517-540, 1998.
  12. Bloswick, D.S., Shirley, B., King, E., “Medical and Rehabilitation Equipment Case Study: Design, Development, and Usability Testing of a Lift-Seat Wheelchair”, Ergonomics in Health Care and Rehabilitation, edited by Valerie Rice, Butterworth-Heinemann, Newton, Massachusetts, 249-261, 1998.
  13. Bloswick, D.S., Jefferies, D., Brakefield, S., Dumas, M., “Industrial Setting Case Study: Ergonomics and Title I of the Americans with Disabilities Act”, Ergonomics in Health Care and Rehabilitation, edited by Valerie Rice, Butterworth-Heinemann, Newton, Massachusetts, 307-315, 1998.
  14. Bloswick, D.S., Villnave, T., Joseph, B., “Ergonomics”, Sourcebook of Occupational Rehabilitation, edited by Phyllis M. King, Plenum Press, 145-165, 1998.
  15. Kohn, J.P., and Bloswick, D.S., “Ergonomic Task Analysis and Risk

- Assessment”, Ergonomic Process Management, edited by James P. Kohn, CRC Press, 189-212, 1999.
16. Sesek, R., and Bloswick, D.S., “Materials Handling”, Safety and Health Management Planning, edited by James P. Kohn, Government Institutes, 635-671, 1999.
  17. Bloswick, D.S., “Climbing Biomechanics”, in Biomechanics in Ergonomics, edited by Shrawan Kumar, Taylor and Francis, 335-349. 1999.
  18. Bloswick, D.S., and Joseph, B., “Pro-active Ergonomics and Designing for Error Free Work”, in Safety Through Design, edited by Wayne Christensen and Fred Manuele, NSC Press, 119-130, 1999.
  19. Bloswick, D.S., and Sesek, R., “Occupational Safety”, in Patty’s Industrial Hygiene, Fifth Edition, edited by Robert L. Harris, John Wiley & Sons, 2639-2685, 2000.
  20. Bloswick, D.S., Villnave, T., “Ergonomics”, in Patty’s Industrial Hygiene, Fifth Edition, edited by Robert L. Harris, John Wiley & Sons, 2531-2638 , 2000.
  21. Chung, M., Kim, S. and Bloswick, D.S., “Trunk Muscle Force Models” in International Encyclopedia of Ergonomics and Human Factors, edited by Waldemar Karwowski, Taylor & Francis, 343-347, 2000.
  22. Bloswick, D.S., and Sesek, R., “Occupational Safety Management and Engineering”, in Maynard’s Industrial Engineering Handbook, edited by Kjell B. Zandin, McGraw-Hill, 6.171-6.204, 2001.
  23. Joseph, B., Kilduff, H. and Bloswick, D.S., “Manufacturing Ergonomics”, in Maynard’s Industrial Engineering Handbook, edited by Kjell B. Zandin, McGraw-Hill, 6.55-6.77, 2001.
  24. Main, B.W., Cloutier, D.R., Manuele, F., and Bloswick, D.S., Risk Assessment for Maintenance Work, Design Safety Engineering, Inc., 2003.
  25. Bloswick, D.S., Hinkley, D., “Job Accomodation” in Muscle Strength, edited by Shrawan Kumar, CRC Press, 469-483, 2004.

## **B. REFEREED JOURNALS:**

1. Bloswick, D.S. and Ellis, N.C., “Tracking Decrement as a Result of Grip Holding Endurance,” Ergonomics, 17(1), 51-58, July, 1974.
2. Moser, R., Meservy, D., Lee, J., Johns, R., Bloswick, D.S., “Education in Management Aspects of Occupational and Environmental Health and Safety Programs”, Journal of Occupational Medicine, 31(3), March, 1989.
3. Bloswick, D.S., and Chaffin, D.B., “An Ergonomic Analysis of the Ladder Climbing Activity”, International Journal of Industrial Ergonomics, 6, 17-27, 1990.
4. Harber, P., Bloswick, D.S., Pena, L., Beck, J., Lee, J., Baker, D.R., “The Ergonomic Challenge of Repetitive Motion with Varying Ergonomic Stresses:

- Characterizing Supermarket Checking Work”, Journal of Occupational Medicine, 34(5), 518-528, 1992.
5. Harber, P., Bloswick, D.S., Luo, J., Beck, J., Greer, D., Pena, L., “Work Related Symptoms and Checkstand Configuration: An Experimental Study”, American Industrial Hygiene Association Journal, 54(7), July, 1993.
  6. Harber, P., Bloswick, D.S., Beck, J., Pena, L., Baker, D.R., Lee, J., “Supermarket Checker Motions and Cumulative Trauma Risk”, Journal of Occupational Medicine, 35(8), 805-811, 1993.
  7. Howell, G., Brown, D.R., Bloswick, D.S., Bean, J., Gooch, J. , “Design of a Device to Exercise Hip Extensor Muscles in Children with Cerebral Palsy”, RESNA Journal of Assistive Technology, 5(2), 119-129, 1993.
  8. King, E., Gooch, J.L., Howell, G.H., Peters, M.L, Bloswick, D.S., Brown, D.R. “Evaluation of the Hip Extensor Tricycle in Improving Gait in Children with Cerebral Palsy”, Developmental Medicine and Child Neurology, 35, 1048-1054, 1993.
  9. Smutz, W.P., Miller, S.C., Eaton, C.J., Bloswick, D.S., France, E.P., “Investigation of Low-force High-frequency Activities on the Development of Carpal Tunnel Syndrome”, Clinical Biomechanics, 9, 15-20, 1994.
  10. Bloswick, D.S., Gerber, A.H., Sebesta, D., Johnson, S., Mecham, W., “The Effect of Mailbag Design on Musculoskeletal Fatigue and Metabolic Load”, Human Factors, 36(2), 210-218, 1994.
  11. Johns, R., Bloswick, D.S., Elegante J., Colledge, A., “Chronic, Recurrent Low Back Pain: A Methodology for Analyzing Fitness for Duty and Managing Risk Under the Americans with Disabilities Act”, Journal of Occupational Medicine, 36(5), 537-547, 1994.
  12. Bloswick, D.S., King, E., Brown, D., Gooch, J.L., Peters, M.L, “Evaluation of a Device to Exercise Hip Extensor Muscles in Children with Cerebral Palsy: a Clinical and Field Study”, RESNA Journal of Assistive Technology, 6(2), 147-151, 1994.
  13. Smutz, W.P., France, E.P., Bloswick, D.S., “Measurement of Creep Strain of Flexor Tendons During Low-force High-frequency Activities Such as Computer Keyboard Use”, Clinical Biomechanics, 10(2), 67-72, 1995.
  14. Perkins, M., Bloswick, D.S., “The Use of Back Belts to Increase Intraabdominal Pressure as a Means of Preventing Low Back Injuries: A Survey of the Literature”, International Journal of Occupational and Environmental Health, 1(4), 326-335, 1995.
  15. Bloswick, D.S., Brown, D.R., King, E., Howell, G., Gooch, J., “Testing and Evaluation of a Hip Extensor Tricycle for Children with Cerebral Palsy”, Disability and Rehabilitation, 18(3), 130-136, 1996.
  16. Meservy, D., Suruda, A.J., Bloswick, D.S., Lee, J., Dumas, M., “Ergonomic Risk Exposure and Upper-Extremity Cumulative Trauma Disorders in a Maquiladora Medical Devices Manufacturing Plant”, Journal of Occupational and Environmental Medicine, 39(8), 767-773, 1997.

17. Wick, H.S., and Bloswick, D.S., "Use of Ergonomics as a Quality Improvement Tool in a Manual Assembly Task", International Journal of Occupational Safety and Ergonomics, 4(1), 19-42, 1998.
18. Chang, C.C., Brown, D.R., Bloswick, D.S., Hsiang, S.M., "Biomechanical Simulations of Manual Lifting Using Space Time Optimizations", Journal of Biomechanics, 34, 527-532, 2001.
19. Sitzman, K., Bloswick, D., "Creative Use of Ergonomic Principles to Reduce Musculoskeletal Stresses in Home Health Care", Home Health Care Nursing Journal, 20(2), 98-103, 2002.
20. Sitzman, K., Bloswick, D., "An Explanatory Study of Nurse Bag Use by Home Visiting Nurses", Home Health Care Nursing Journal, 20(4), 237-243, 2002.
21. Silvia, C., Bloswick, D., Lillquist, D., Perkins, M., "An Ergonomic Comparison Between Mechanical Patient Transfer Techniques", Work: A Journal of Prevention, Assessment & Rehabilitation, 19(1) 2002.
22. Suruda, A., Whitaker, B., Bloswick, D., Philips, P., Sese, R., "Impact of the OSHA Trench and Excavation Standard on Fatal Injury in the Construction Industry", Journal of Occupational and Environmental Medicine, 44(10), 2002.
23. Sitzman, K.L., Pett, M.A., Bloswick, D.S., "An Exploratory Study of Motor Vehicle Use in Home Visiting Nurses", Home Health Care Nursing Journal, 20(12), 784-792, Dec 2002, and American Occupational Health Nursing, 50(12), 553-558, 2002.
24. Lyon, J., Lillquist, D., Alder, S., Stephenson, D., Bloswick, D., "An Analysis of VDT Monitor Placement and Daily Hours of Use for Female Bifocal Users", Work: A Journal of Prevention, Assessment & Rehabilitation, 20, 77-80, 2003.
25. Bloswick, D., Erickson, J., Brown, D., Howell, G., Mecham, B., "Maneuverability and Usability Analysis of Three Knee-Extension Propelled Wheelchairs", Disability and Rehabilitation, 25(4-5), 197-206, 2003.
26. Drinkaus, P., Sese, R., Bloswick, D., Bernard, T., Walton, B., Joseph, B., Reeve, G., Counts, J.H. "Comparison of Ergonomic Risk Assessment Outputs from Rapid Upper Limb Assessment and the Strain Index for Tasks in Automotive Assembly Plants", Work: A Journal of Prevention, Assessment & Rehabilitation, 21(2), 165-172, 2003.
27. Sese, R., Gilkey, D., Drinkaus, P., Bloswick, D., Herron, R., "Evaluation and Quantification of Manual Materials Handling Risk Factors", International Journal of Occupational Safety and Ergonomics, 9(3), 271-287, 2003.
28. Elbel, R., Aldana, S., Bloswick, D., Lyon, L., "A Pilot Study Evaluating a Peer Led and Professional Led Physical Activity Intervention with Blue-collar Employees", Work: A Journal of Prevention, Assessment & Rehabilitation, 21, 199-210, 2003.
29. Coakwell, M., Bloswick, D., Moser, R., Jr., "The High-Risk Head and Neck Movements, and Interventions to Reduce Neck Injury in High-G Environments", Aviation, Space and Environmental Medicine Journal, 75(1), 68-80, 2004.
30. Drinkaus, P., Bloswick, D., Sese, R., Mann, C., Bernard, T., "Job Level Risk

Assessment Using Task Level Strain Index Scores: A Pilot Study”. International Journal of Occupational Safety and Ergonomics. 11(2), 141-152, 2005.

31. Drinkaus, P., Sesek, R., Bloswick, D., Mann, C., Bernard, T., “Job Level Risk Assessment Using Task Level ACGIH Hand Activity Level TLV Scores: A Pilot Study”, International Journal of Occupational Safety and Ergonomics, accepted 2005.
32. Sesek, R., Tuckett, R.P., Bloswick, D.S., Khalihi, M., Anderson, M., “Effects of Prolonged Wrist Flexion on Transmission of Sensory Information In Carpal Tunnel Syndrome”, Journal of Hand Surgery, accepted with revisions, 2003.
33. Thomas, K., Bloswick, D., Suruda, A., Sesek, R., “Fatal Work-Related Falls in Construction and Structural Steel Erection”, in process.

### **C. FORMALLY REVIEWED CONFERENCE PROCEEDINGS AND ABSTRACTS:**

1. Bloswick, D.S., and Chaffin, D.B., Andres, R.O., Herrin, G.D., and McMahan, P.B., “Ladder Climbing Biomechanics”, Proceedings of the 1984 International Conference on Occupational Ergonomics, Toronto, Canada, May 1984.
2. Bloswick, D.S., Chaffin, D.B., Andres, R.O., and Herring, G.D. “Ladder Climbing Safety: Task, Equipment and User Characteristics”, Presented at American Industrial Hygiene Conference, Detroit, Michigan, May 1984.
3. Bloswick, D.S., Jaraiedi, M., and Herrin, G.D., “Biomechanical Analysis and Recommendations to Minimize Overexertion Hazards in the Switch Throwing Activity”, Presented at American Industrial Hygiene Conference, Detroit, Michigan, May 1984.
4. Andres, R.O., Bloswick, D.S., Chaffin, D.B., “A Biodynamic Model for Investigating Industrial Push/Pull Tasks”, Proceedings of the 8th Annual Meeting of the American Society of Biomechanics, October 1984.
5. Bloswick, D.S., Chaffin, D.B., and Schultz, A.B., “A Dynamic Biomechanical Model of the Climbing Activity”, Proceedings of the 7th Annual Conference of the Engineering in Medicine and Biology Society of the Institute of Electrical and Electronics Engineers, September 1985.
6. Chaffin, D.B., Andersson, G.B.J., Page, G., and Bloswick D.S., “Low Back Muscle Models - A Sensitivity Analysis”, Proceedings of the 9th Annual Meeting of the American Society of Biomechanics, October 1985.
7. Bloswick, D.S., and Chaffin, D.B., “Ladder Climbing: A Dynamic Biomechanical Model and Ergonomic Analysis”, Trends in Ergonomics/Human Factors IV, Proceedings of the Annual International Industrial Ergonomics and Safety Conference, Miami, Florida, June 1987.
8. Bloswick, D.S., Procarione, J., Mukherjee, S., “Analysis of Slip/Fall Accidents in Underground Coal Mines”, Presented at the Society of Mining Engineers Annual Meeting, Phoenix, Arizona, January 1988.
9. Love, A.C., and Bloswick, D.S., “Slips and Falls During Manual Handling

- Activities”, Proceedings of the Annual Conference of the Human Factors Association of Canada, Edmonton, Canada, September 1988.
10. Bloswick, D.S., and Weiler, J., “Empirical Evaluation of Posture During Manual Material Handling Activities: Applications of NIOSH Work Practices Guide Parameters to Biomechanical Model Analysis”, Proceedings of the 1990 International Industrial Engineering Conference, San Francisco, California, May 1990.
  11. Bloswick, D.S., “Forensic Applications of Coefficient of Friction Testing: A Critical Review”, Proceedings of Slip, Trip and Fall 91, Royal College of Surgeons, London, England, April 1991.
  12. Love, A.C., and Bloswick, D.S., “Slips and Falls During Load Carrying Activities”, Proceedings of Slip, Trip and Fall 91, Royal College of Surgeons, London, England, April 1991.
  13. Bloswick, D.S., Jumonville, J., Baker, D.R., Sandquist, G., “Control Room Design: A Review of Ergonomic Design Criteria and Analytical Tools”, Proceedings of the International Meeting on Nuclear Power Plant Maintenance, Salt Lake City, Utah, April 1991.
  14. Baker, D.R., Bloswick, D.S., Sandquist, G., “Human Factors and NUREG-0700”, Proceedings of the International Meeting on Nuclear Power Plant Maintenance, Salt Lake City, Utah, April 1991.
  15. Bloswick, D.S., Baker, D.R., Johns, Jr., R., Moser, R., “Mechanical Engineers in the Preventive Medicine Clinic: Opportunities for Learning and Teaching”, Proceedings of the 1991 ASEE Annual Conference, New Orleans, Louisiana, June 1991.
  16. Bloswick, D.S., Moncur, C., Baker, D.R., Chang, M., “Ergonomics and Occupational Biomechanics for Engineers: The Need for an Understanding of Human Functional Anatomy”, Proceedings of the 1991 ASEE Annual Conference, New Orleans, Louisiana, June 1991. (6 out of 29 submitted papers accepted)
  17. Smutz, W.P., France, E.P., and Bloswick, D.S., “The Relationship Between the Creep Properties of Flexor Tendons and Carpal Tunnel Syndrome”, Presentation and Proceedings of the Orthopaedics Research Society 38th Annual Meeting, Washington, D.C., February 17-20, 1992.
  18. Bloswick, D.S., and Golias, E., “Ergonomics and the OSHA Regulatory Environment”, Proceedings of the 1992 International Industrial Engineering Conference, Chicago, Illinois, May 1992.
  19. Bloswick, D.S., Budnick, P.M., Brown D.R., “An Expert System for Industrial Engineering Task and Process Design”, Proceedings of the 1992 First Industrial Engineering Research Conference, Chicago, Illinois, May 1992.
  20. Budnick, P.M., Bloswick, D.S., Brown D.R., “Integrating Industrial Ergonomics into the Design Process: Accommodating the Design Engineer”, Advances in Industrial Ergonomics and Safety IV, edited by S. Kumar, Taylor and Francis, June 1992.

21. Dumas, M.A. and Bloswick, D.S., "Analysis of Video Taped Tasks Involving Upper Extremity Cumulative Trauma Risk Factors: Validity and Viewer Bias", Advances in Industrial Ergonomics and Safety IV, edited by S. Kumar, Taylor and Francis, June 1992.
22. Gerber, A.H. Bloswick, D.S., and Johnson, S.C., "The Effect of Mailbag Design on Lateral Trunk Muscle Fatigue", Advances in Industrial Ergonomics and Safety IV, edited by S. Kumar, Taylor and Francis, June 1992.
23. Smutz, W.P., Bloswick, D.S., and France, E.P., "An Investigation into the Effect of Low Force-High Frequency Manual Activities on the Development of Carpal Tunnel Syndrome", Advances in Industrial Ergonomics and Safety IV, edited by S. Kumar, Taylor and Francis, June 1992.
24. Bloswick, D.S. and Crookston G., "The Effect of Personal, Environmental and Equipment Variables on Preferred Ladder Slant", Advances in Industrial Ergonomics and Safety IV, edited by S. Kumar, Taylor and Francis, June 1992.
25. Gerber, A.H., Johnson, S.C., Bloswick, D.S., "The Effect of Mailbag Load Distribution of Trunk Muscle Fatigue", Proceedings of the 1992 Conference of American Association of Physical Therapists, June, 1992, Denver, Colorado, and Physical Therapy, 27(6 Suppl), June 1992.
26. Brown, D.R., Budnick, P.M., Bloswick, D.S., "A Concurrent Design Framework for the Ergonomics of Production Processes", Proceedings of the ASME International Computers in Engineering Conference, August 1992.
27. Shirley, B., King, E., Bloswick, D., "Design and Initial Evaluation of a Wheelchair to Aid the Elderly and Disabled to Stand", Proceedings of the 16th Annual RESNA Conference, June 1993.
28. King, E., Bloswick, D.S., Brown, D.R., Gooch, J., Peters, M.L., "Evaluation of a Device to Exercise the Hip Extensor Muscles in Children with Cerebral Palsy: A Clinical and Field Study", Proceedings of the 16th Annual RESNA Conference, June 1993.
29. Stans, L.K., Nicholson, D.E., Miller, M.L., Gooch, J.L., Bloswick, D.S., "Methods for Studying the Effects of an Eight Week Tricycle Training Program on Walking, Stair Climbing, and Endurance in Children with Cerebral Palsy", Motorpoint, 6:7, 1994. (Abstract)
30. Bloswick, D.S., Dumas, M., Brakefield, S., Jefferies, D., "Ergonomic Implications of The Americans With Disabilities Act", Proceedings of the 12th Triennial Congress of the International Ergonomics Association, Toronto, Canada, August 1994.
31. Bloswick, D.S., Hart, A., Bonar, L., "Integrating Rehabilitation Engineering Into a Traditional Ergonomics Course", Proceedings of the 12th Triennial Congress of the International Ergonomics Association, Toronto, Canada, August 1994.
32. Bloswick, D.S., Dumas, M., "Ergonomics and the Disabled/Rehabilitated Worker: Using Analytical Tools to Assess Risk", Proceedings of the 12th Triennial Congress of the International Ergonomics Association, Toronto, Canada, August 1994.

33. Bloswick, D.S., Brown, D.R., King, E., Howell, G., Gooch, J., and Peters, M. "Development and Testing of a Hip Extensor Tricycle for Children With Cerebral Palsy", Proceedings of the 12th Triennial Congress of the International Ergonomics Association, Toronto, Canada, August 1994.
34. Bloswick, D.S., Shirley, B., King, E., Erickson, J., Brown, D.R., Goodenough, J., Wright, S., "Development and Testing of Wheelchairs with Lift Seat and Knee Extension Propulsion", Proceedings of the 12th Triennial Congress of the International Ergonomics Association, Toronto, Canada, August 1994.
35. Stans, L.K., Nicholson, D.E., Miller, M.L., Gooch, J.L., Bloswick, D.S., "An Eight-Week Tricycle-Training Program Enhances Gait in Children with Cerebral Palsy", Pediatric Physical Therapy, 7:202, 1995. (*Abstract*)
36. Chang, C., Brown, D.R., Bloswick, D.S., "Spacetime Optimization for Assembly Process Design Associated with Manual Lifting", Proceedings of 1996 ASME Design Engineering Technical Conferences and Computers in Engineering Conference, Irvine, California, August 1996.
37. Bloswick, D.S., Christensen, W.C., "Integrating Safety, Health, and Environmental Concepts into the Engineering Curricula: One Mission of The Institute for Safety Through Design", Proceedings of The Best in Safety Education Occupational Safety and Health Educators' Conference, Las Vegas, Nevada, March 1997.
38. Bloswick, D.S., Christensen, W.C., and Roemer, R.B., "Safety, Health, and the Environment in the Engineering Curricula: The Institute for Safety Through Design", Proceedings of the American Society of Engineering Education, Milwaukee, Wisconsin, June 1997.
39. Chang, C., Brown, D.R., Bloswick, D.S., "Prescribing Human Motion Patterns for Assembly Processes Associated with Manual Lifting", Proceedings of the 1997 Design Engineering Technical Conferences, Sacramento, California, September 1997.
40. Suruda, A., Bloswick, D.S., Egger, M., Wing, H., and Lillquist, D., "A Study of Fatal Work Injuries Involving Forklifts", Fourth World Conference on Injury Prevention and Control, Amsterdam, The Netherlands, 1998.
41. Bloswick, D., Elliott, C., Jones, K., "Safety, Health, Environment, and Ergonomic Issues as Integral Parts of the ME Curriculum", Fourth Annual the Best in Safety Education Occupational Safety and Health Educators' Conference, Las Vegas, Nevada, March 2000.
42. Seseck, R., Drinkaus, P., Bloswick, D., Meservy, D., Suruda, A., "Using Existing Ergonomics Tools to Predict Job-Related CTD Symptoms and Injuries", Abstract/Oral Presentation, American Industrial Hygiene Conference & Exhibition, Orlando, Florida, #262, June 2000.
43. Bloswick, D., Elliott, C., Jones, K., "Integration of Safety and Ergonomics Material Into the Mechanical Engineering Curriculum", Proceedings, ASME Annual Conference, SERA-Vol. 10, Safety Engineering & Risk Analysis, 2000, 213-219, W. Doerr, editor, Orlando, Florida, November 2000.

44. Bloswick, D., "How Heavy is Heavy?: Quantification of the Stress in Material Handling Tasks", 21<sup>st</sup> Annual Alaska Governor's Safety and Health Conference, Anchorage, Alaska, March 2001.
45. Bloswick, D., Elliott, C., Jones, K., Shirley, Nathan, "Safety, Health, and Ergonomic Issues in the Undergraduate Engineering Curriculum", Proceedings, Rocky Mountain Section ASEE Annual Conference, Salt Lake City, Utah, May 6-7, 2001.
46. Bloswick, D., "User Friendly and Efficient Methods of Estimating the Stress in Manual Material Handling Tasks", 10<sup>th</sup> International Conference on Safe Communities, Anchorage, Alaska 21-23 May 2001.
47. Suruda, A., Whitaker, B., Bloswick, D., Seseck, R., Philips, P., "Effectiveness of the OSHA Trench and Excavation Standard: Analysis of Trenching Fatalities Occurring Nationwide from 1994-1995", Abstract/Poster Presentation, APHA Annual Conference, Atlanta, Georgia, October 2001.
48. Bloswick, D. "Real Ergonomics: How to Recognize, Evaluate, and Abate or Limit Upper Extremity Cumulative Trauma Disorders", 23<sup>rd</sup> Annual Alaska Governor's Safety Conference, Anchorage, Alaska, March 2003.
49. Reese, S.K, Seseck, R.F., Tuckett, R.P., Bloswick, D., "Measuring the Effects of Ergonomic Risk Factors on Tactile Sensation", 1<sup>st</sup> Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium, Salt Lake City, Utah, June 2003.
50. Meckam, W. and Seseck, R. The Effects of Floor Wear on Slip Resistance Measurements: A Pilot Study, 1<sup>st</sup> Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium, Salt Lake City, June 2003.
51. Seseck, R.F., Tuckett, R.P., Bloswick, D., Khalighi, M., "Prolonged Provocative Wrist Flexion as an Improved Method for Carpal Tunnel Syndrome Screening", 1<sup>st</sup> Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium, Salt Lake City, Utah, June 2003.
52. Sitzman, K.L., Pett, M.A., Bloswick, D., "An Exploratory Study of Motor Vehicle Use in Homecare Nurses", 1<sup>st</sup> Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium, Salt Lake City, Utah, June 2003.
53. Seseck, R.F., Drinkaus, P., Bloswick, D.S., Gilkey, D., "Application of the NIOSH Revised Lifting Equation to One-Handed Lifting Tasks", 1<sup>st</sup> Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium, Salt Lake City, Utah, June 2003.
54. Drinkaus, P., Bloswick, D., Seseck, R., Mann, C., Bernard, T., "The Strain Index: Using Task Level Outputs to Evaluate Job Risk" 1<sup>st</sup> Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium, Salt Lake City, Utah, June 2003.
55. Drinkaus, P., Bloswick, D., Seseck, R., Mann, C., Bernard, T., "The Hand Activity Level: Using Task Level Outputs to Evaluate Job Risk" 1<sup>st</sup> Annual

Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium, Salt Lake City, Utah, June 2003.

56. Bloswick, D., Hall-Counts, J., Reeve, G., Joseph, B.S., Seseck, R., Walton, R. Drinkaus, P., Schwartz, S. "An Ergonomic Survey Tool for Industrial Operations", 15<sup>th</sup> Triennial Congress of the International Ergonomics Association, Seoul, Korea, August 2003.
57. Bloswick, D., Husberg, B., Blumhagen, E., "Quantification of Low-Back and Shoulder Stress in Commercial Crab Fishing Operations," The Second International Fishing Industry Safety & Health Conference, Sitka, AK, September 2003.
58. Bloswick, D., Husberg, B., Blumhagen, E. "The Use of Operating Hazard Analysis to Review On-Deck Procedures in Commercial Crab Fishing," The Second International Fishing Industry Safety & Health Conference, Sitka, AK, September 2003.
59. Ellis, E., Bloswick, D., and Seseck, R., A Pilot Study Into the Correlation Between Grip Parameters and UECTDs in Sewing Operations, 2nd Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium, Salt Lake City, April 2004.
60. Reese, S., Seseck, R., Tuckett, R., and Bloswick, D. Tactile Response of Three Study Groups to Four Ergonomic Risk Factors, 2nd Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium, Salt Lake City, April 2004.
61. Beck, L., Bloswick, D., and Seseck, R. Health Effects of Vibrating Equipment - A Comparative Analysis of a Caterpillar CS-4338 Vibratory Compactor, 2nd Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium, Salt Lake City, April 2004.
62. Sitzman, K., Pett, M., Bloswick, D. An Exploratory Study of Nurse Bag Use in Home Visiting Nurses, 2nd Annual Regional National Occupational Research Agenda (NORA) Young/New Investigators Symposium, Salt Lake City, April 2004.
63. Bloswick, D., "Efficient and User Friendly Methods to Estimate the Stress Associated with Manual Material Handling (MMH) Activities", 25<sup>th</sup> Annual Alaska Governor's Safety and Health Conference, Anchorage, Alaska, March 2005.

**D. CONFERENCE PROCEEDINGS/PRESENTATIONS:**

1. Bloswick, D.S., "Climbing", Michigan Safety Conference Program, Lansing, Michigan, April 1984.
2. Bloswick, D.S., "Climbing Safety", Presented at Michigan Society of Safety Engineers Annual Conference, Lansing, Michigan, April 1984.
3. Bloswick, D.S., "Climbing Biomechanics", Presented at Workshop on Computer Analysis of Human Movement, Wright Patterson Air Force Base, Dayton, Ohio, April 1985.

4. Bloswick, D.S., "Biomechanical Research and Applications of the University of Michigan Center for Ergonomics", Presented at Workshop on Human Computer Graphics Models, Wright Patterson Air Force Base, Dayton, Ohio, April 1985.
5. Bloswick, D.S., "Biomechanical Modeling of the Climbing Activity", Presented at Workshop on Human Computer Graphics Models, Wright Patterson Air Force Base, Dayton, Ohio, April 1985.
6. Bloswick, D.S., Chaffin, D.B., Herrin, G.D., Keyserling, W.M., Schultz, A.B., McMahan, P.B. "An Ergonomic Analysis of the Ladder Climbing Activity", Annual Conference of the Institute of Industrial Engineers, Chicago, Illinois, December 1985.
7. Bloswick, D.S., "Workplace Design", Presented at the Fifth Annual Joint Utah Conference on Occupational Safety and Health, Salt Lake City, Utah, September 1986.
8. Bloswick, D.S., "The State of Ergonomics Education at The University of Utah", Presented at the Annual Conference of the Rocky Mountain Section of the American Society for Engineering Education, Salt Lake City, Utah, April 1987.
9. Bloswick, D.S., "Workplace Design - Low Back and Upper Extremity Problems", Presented at the Air Force Logistics Command Third Annual Update in Occupational Medicine, Hill Air Force Base, Utah, April 1987.
10. Bloswick, D.S., "Integrating Ergonomics into the Engineering Curriculum", Presented at NIOSH Conference on Ergonomics and Engineering, Honolulu, Hawaii, March 1988.
11. Bloswick, D.S., "Ergonomics in the Workplace", Presented at IIE Professional Development Conference, Salt Lake City, Utah, April 1988.
12. Bloswick, D.S. and Golias, E., "Ergonomic Rules and Tools", Presented at Rocky Mountain Health and Safety Conference, Denver, Colorado, August 1988.
13. Bloswick, D.S., "Ergonomics", Presented at Conference on Safety and the Bottom Line, University of North Texas, September 1988.
14. Bloswick, D.S., "Ergonomic Intervention Techniques", Presented at The Work Hardening Association of Oregon Annual Conference, Portland, Oregon, October 1988.
15. Bloswick, D.S., "Ergonomics and Safety and Job Accommodation", Presentation at Workshop Managing the Difficult Workers Compensation or Long Term Disability Case in the 1990's, Salt Lake City, Utah, October 1988.
16. Bloswick, D.S., "Principles of Ergonomics", Presented at the Sixth Annual Joint Utah Conference on Occupational Safety and Health, Salt Lake City, Utah, February 1989.
17. Bloswick, D.S., "Ergonomics and the Senior Citizen", Presented at the Utah Area Agencies on Aging Conference, Salt Lake City, Utah, March 1989.
18. Bloswick, D.S., "Ergonomics Analysis Techniques", Presented at The Governors

- Conference on Occupational Safety and Health, Portland, Oregon, March 1989.
19. Bloswick, D.S., "Ergonomics in the 1990s", Presented at the Annual Conference of the Utah Public Health Association, Park City, Utah, June 1989.
  20. Bloswick, D.S., "Proposals for the Adaptation of the NIOSH Work Practices Guide (NIOSH WPG), Biomechanical Modeling Techniques, and Metabolic Analysis Techniques to the Injured or Rehabilitated Worker", Proceedings of the 1st Annual CAIRE Conference: Work Injury Management, Denver, Colorado, November 1989.
  21. Bloswick, D.S., "Upper Extremity Cumulative Trauma Disorders, More Than Just a Pain in the Neck", Presented at the Seventh Annual Joint Utah Conference on Occupational Safety and Health, Salt Lake City, Utah, February 1990.
  22. Bloswick, D.S., "Occupational Ergonomics: Prevention of Low Back and Upper Extremity Cumulative Trauma Disorders", Presentation at the Fourth Idaho Loss Prevention Conference, Boise, Idaho, March 1990.
  23. Bloswick, D.S., "Safety and Ergonomics in the Engineering Curricula: Non-Traditional Approaches", Workshop on Integration of Safety and Health into Engineering Curricula, Salt Lake City, Utah, April 1990.
  24. Bloswick, D.S., "Safety and Ergonomics in the Engineering Curricula: Non-Traditional Approaches", Workshop on Integration of Safety and Health into the Engineering Curricula, Salt Lake City, Utah, April 1990.
  25. Bloswick, D.S., Joseph, B., "Upper Extremity Cumulative Trauma Disorders: Analysis and Prevention", Proceedings of the 28th Annual Iowa Workers Compensation Symposium, Des Moines, Iowa, June 1990.
  26. Bloswick, D.S., "Ergonomics: Scientific and Common Sense Principles to Make the Environment 'Senior Friendly'", Governor's Conference on Aging, Salt Lake City, Utah, October 1990.
  27. Bloswick, D.S., "Upper Extremity Cumulative Trauma Disorders - Workplace Biomechanics", Invited "Semi-keynote" at the Forty-Ninth Annual Western Occupational Health Conference, Los Angeles, California, November 1990.
  28. Bloswick, D.S., "Ergonomics-An Overview", ASSE Montana Safety and Health Professional Development Conference, Butte, Montana, April 1991.
  29. Bloswick, D.S., "Ergonomics-A Closer Look", ASSE Montana Safety and Health Professional Development Conference, Butte, Montana, April 1991.
  30. Bloswick, D.S., "Biomechanics of Lifting, Lifting Limits, and Biomechanical Models", 6th Annual Medicine in the Workplace Seminar, Richland, Washington, April 1991.
  31. Bloswick, D.S., "Hands on Practice with the University of Michigan Model", 6th Annual Medicine in the Workplace Seminar, Richland, Washington, April 1991.
  32. Bloswick, D.S., "Ergonomics Introduction", Montana-Wyoming Safety Conference (NSC), Billings, Montana, May 1991.
  33. Bloswick, D.S., "Cumulative Trauma Disorders and Ergonomics", Cumulative

- Trauma Disorders-A New Era of Risk, Seminar-Johnson Higgins Insurance, Salt Lake City, Utah, July 1991.
34. Bloswick, D.S., “The Ergonomics of Upper Extremity Cumulative Trauma Disorders”, Presentation at Managing the Long Term Disability Case, Park City, Utah, September 1991.
  35. Bloswick, D.S., “Analysis and Prevention of Upper Extremity Cumulative Trauma Disorders (UECTD)”, Workshop: Potential Benefits of Ergonomics Research of the Gas Industry, San Ramon, California, October 1991.
  36. Bloswick, D.S., “Ergonomics”, Workshop: Potential Benefits of Ergonomics Research of the Gas Industry, San Ramon, California, October 1991.
  37. Bloswick, D.S., “Ergonomics and the Agricultural Industry”, Utah Conference on Health and Safety in Agriculture, Salt Lake City, Utah, March 1992.
  38. Bloswick, D.S., “Prevention of Carpal Tunnel Syndrome in the Workplace”, Workers’ Compensation Seminar-Great American Insurance, Salt Lake City, Utah, March 1992.
  39. Bloswick, D.S., “Why You Can’t Stand to Sit Any Longer”, Association of College and Research Libraries 6th Annual Conference and Utah Library Association Annual Conference, Salt Lake City, Utah, March 1992.
  40. Bloswick, D.S., “Ergonomics in Agriculture”, American Farm Bureau Convention for State Safety Coordinators, Salt Lake City, Utah, April 1992.
  41. Bloswick, D.S., “Ergonomics”, EPOCH/ENVI (Educating Physicians in Occupational Health and the Environment) Faculty Development Workshop, Salt Lake City, Utah, April 1992.
  42. Bloswick, D.S., “Safety and Health Courses”, Northwest Workshop on Occupational Safety and Health in the Engineering Curriculum, Corvallis, Oregon, April 1992.
  43. Bloswick, D.S., “Company Safety and Ergonomics”, Industrial Commission of Utah Annual Conference, Salt Lake City, Utah, May 1992.
  44. Bloswick, D.S., “Developing and Marketing Safety and Ergonomics Courses in a Traditional Engineering Curricula: Process and Content”, Workshop on Integration of Safety and Health into the Engineering Curricula, Eugene, Oregon, May 1992.
  45. Bloswick, D.S., Brown, D. R., Budnick, P.M., “An Expert System for Ergonomic Design of Motor Vehicle Assembly Operations”, Motor Vehicle Manufacturers Association Symposium: Ergonomics in Motor Vehicle Manufacturing - Issues and Opportunities, Dearborn, Michigan, June 1992.
  46. Bloswick, D.S., “Upper Extremity Cumulative Trauma Disorders and the Ergonomic Implications of the Americans with Disabilities Act”, Utah Chapter Risk Insurance Management Society Annual All-Industry Day, Salt Lake City, Utah, October 1992.
  47. Bloswick, D.S., “Ergonomics”, State of Utah Risk Management Annual Conference, Salt Lake City, Utah, December 1992.

48. Bloswick, D.S., "Ergonomic Analysis and Compliance with the Americans with Disabilities Act", Presented at the Tenth Annual Joint Utah Conference on Occupational Safety and Health, Salt Lake City, Utah, February 1993.
49. Bloswick D.S., "Ergonomics and the Disabled/Rehabilitated Worker: Using Analytical Tools to Assess Risk", Proceedings of the 4<sup>th</sup> Annual Work Injury Management Conference, New Orleans, February 1993.
50. Bloswick, D.S., "Developing Ergonomics Programs in Industry: A Practical Guide", Proceedings of the 4th Annual Work Injury Management Conference, New Orleans, February 1993.
51. Bloswick, D.S., "Ergonomics", Presented at the Risk Insurance Management Society - Spring Issues Forum, Salt Lake City, Utah, March 1993.
52. McClellan, S., Bloswick, D.S., "Protection for Platform Divers: Potential Solutions and Research Directions", Proceedings of the U.S. Diving Sport Science Seminar, Los Angeles, California, September 1993.
53. Bloswick, D.S., "Advanced Cumulative Trauma Workshop", 10<sup>th</sup> Annual Utah Conference on Safety and Industrial Hygiene, Salt Lake City, Utah, October 1993.
54. Bloswick, D.S., and Dumas, M., "Reducing Cumulative Trauma Disorders in Industry and in the Office", Presented at the Utah Workers Compensation Cost Control Symposium, Salt Lake City, Utah, January 1994.
55. Bloswick, D.S., "Work Analysis Techniques to Reduce Manual Material Handling Injuries", Presented at the Utah Workers Compensation Cost Control Symposium, Salt Lake City, Utah, January 1994.
56. Bloswick, D.S., "Ergonomic Principles and Disability", Presented at the Joint Utah Augmentative Communication and Western Assistive Technology Conference, Salt Lake City, Utah, February 1994.
57. Bloswick, D.S., "Ergonomic Applications and Implications of ADA and Employment", Presented at the Joint Utah Augmentative Communication and Western Assistive Technology Conference, Salt Lake City, Utah, February 1994.
58. Bloswick, D.S. and Brown, D.R., "ErgoWeb: An Interactive Ergonomics Resource", Presented to National Center for Manufacturing Sciences Ergonomics Forum, Ann Arbor, Michigan, March 1994.
59. Bloswick, D.S., "Preventing Falls and Other Common Injuries Among Older Adults", Utah Department of Human Services Conference on Prevention, Park City, Utah, April 1994.
60. Bloswick, D.S., "A Review of Analytical Tools Available to the Occupational Medicine Physician to Assess Upper Extremity and Low-Back Stresses", California Workers Compensation Task Force, Los Angeles, California, May 1994.
61. Bloswick, D.S., "Ergonomics in the Occupational Medicine Curriculum", EPOCH-ENVI (Educating Physicians in Occupational Health and the Environment) Conference, Salt Lake City, Utah, May 1994.

62. Bloswick, D.S., "Preventing Musculoskeletal Injuries, Slips and Falls, and Other Injuries in Older Adults", Utah Gerontological Society 2nd Annual Conference: Generations Working Together, Salt Lake City, Utah, September 1994.
63. Bloswick, D.S., "ADA & Safety", 11<sup>th</sup> Annual Utah Conference on Safety and Industrial Hygiene, Salt Lake City, Utah, October 1994.
64. Bloswick, D.S., "Analytical Tools for the Analysis of Manual Material Handling Tasks", Southern Oregon Occupational Safety & Health Conference, Medford, Oregon, November 1994.
65. Bloswick, D.S., "Ergonomic Risk Factors, The Regulatory Environment, and Ergonomic Program Development", Southern Oregon Occupational Safety & Health Conference, Medford, Oregon, November 1994.
66. Bloswick, D.S., "Integrating Safety and Health Into the Traditional Engineering Curricula", NIOSH Workshop on Incorporating Safety Concepts Into Engineering Curricula, Tufts University, Medford, Maine, January 1995.
67. Bloswick, D.S., "Analytical Tools for the Analysis of Manual Material Handling Tasks", Oregon Governors Conference on Occupational Safety & Health, Portland, Oregon, March 1995.
68. Bloswick, D.S., "A Review of Basic Body Biomechanics and User Friendly Tools to Assess Manual Material Handling Hazards", Orange County American Industrial Hygiene Association Annual Professional Symposium, Norwalk, California, October 1995.
69. Bloswick, D.S., "Carpal Tunnel Syndrome: Definition, Causation, and Prevention", Oklahoma Safety Council Fall Safety and Health Conference, Tulsa, Oklahoma, October 1995.
70. Bloswick, D.S., "New Developments on OSHA and Ergonomics", Annual Utah Conference on Safety and Industrial Hygiene, Salt Lake City, Utah, October 1995.
71. Bloswick, D.S., "User Friendly Analytical Tools for the Evaluation of Strains Associated with Manual Material Handling Tasks: Back Compressive Force and Shoulder Moment", Ford Corporation Annual Ergonomics Conference, Detroit, Michigan, October 1995.
72. Bloswick, D.S., "ErgoWeb: An On-Line Ergonomics Resource", Ford Corporation Annual Ergonomics Conference, Detroit, Michigan, October 1995.
73. Bloswick, D.S., "Advances in the Evaluation, Treatment, and Prevention of Work Injuries", Work Injury Management 1996, Dallas, Texas, February 1996.
74. Bloswick, D.S., "The Application of Ergonomic Principles and User-Friendly Analytical Tools to Task and Equipment Design: Emphasizing the Pro-Active", Twenty-Eighth Annual Institute on Mining Health, Safety, and Research, Salt Lake City, Utah, August 1997.
75. Bloswick, D.S., "User Friendly Analytical Tools for the Analysis of Manual Material Handling Tasks", 14th Annual Utah Conference on Safety and Industrial Hygiene, Salt Lake City, Utah, September 1997.

76. Bloswick, D.S., "Safer by Design: What's Different about Safety Through Design?", 1997 NSC Congress, Milwaukee, Wisconsin, October 1997.
77. Bloswick, D.S., "User Friendly Analytical Tools for the Estimation of Stresses Associated with Manual Material Handling Tasks", 5th Annual Conference Managing Ergonomics in the Future, Las Vegas, Nevada, April 1998.
78. Bloswick, D.S., "User Friendly Analytical Tools for the Estimation of Stresses Associated with Manual Material Handling Tasks", Idaho Governor's Safety and Health Conference, Boise, Idaho, April 1998.
79. Bloswick, D.S., "User Friendly Analytical Tools for the Analysis of Manual Material Handling Tasks", 15th Annual Utah Conference on Safety and Industrial Hygiene, Salt Lake City, Utah, August 1998.
80. Bloswick, D.S., "Intervention to Control Musculoskeletal Disorders in Industry", Proceedings of the National Academy of Sciences Workshop on Musculoskeletal Disorders Research, National Academy of Sciences, August 1998, Washington, DC.
81. Bloswick, D.S., "Ergonomics-Assessment and Implementation in the Workplace and Classroom", Utah AHEAD Conference Forging AHEAD on the Electronic Highway, Salt Lake City, Utah, April 1999.
82. Bloswick, D.S., "Principles of Ergonomics: An Engineering and Design Perspective", The American Occupational Therapy Association Conference, Indianapolis, Indiana, April 1999.
83. Bloswick, D.S., "Safety (and Ergonomics) Through Design", 16th Annual Utah Conference on Industrial Hygiene and Safety, Salt Lake City, Utah, October 1999.
84. Bloswick, D.S., "Evaluation Mechanisms of Injury as Applied to Allen Causation Criteria", 12th Annual Compensable Disability Forum, Salt Lake City, Utah, September 1999.
85. Bloswick, D.S., "Tools for Evaluating Ergonomic Hazards", 17th Annual Utah Conference on Industrial Hygiene and Safety, Salt Lake City, Utah, October 2000.
86. Bloswick, D., "Biomechanical and Metabolic Analysis of Risk as Related to the Allen Decision", Utah Worker's Compensation Fund Self Insured Conference, Salt Lake City, Utah, April 2001.
83. Bloswick, D.S., "Ergonomics in Primary Care", Regional issues in Occupational and Environmental Health for the Primary Care Provider, University of New Mexico Health Sciences Center, School of Medicine, Durango, Colorado, September 2001.
84. Bloswick, D.S., "Ergonomics Makes Sense", Navigating the Workers Compensation Maze Conference, Salt Lake City, Utah, September 2001.
85. Bloswick, D.S., "Upper Extremity Cumulative Trauma Disorders: Causation and Cost Effective Prevention/Abatement", 18th Annual Utah Conference on Industrial Hygiene and Safety, Salt Lake City, Utah, October 2001.

86. Bloswick, D.S., "Ergonomics", LDS Church National Risk Management Seminar, Provo, Utah, September 2002.
87. Bloswick, D.S., "Back Injury Causation", 19<sup>th</sup> Annual Utah Conference on Industrial Hygiene and Safety, Salt Lake City, Utah, October 2002.
88. Bloswick, D.S., "Office Ergonomics", LDS Church National Risk Management Seminar, Provo, Utah, August 2003.
89. Bloswick, D.S., "UAW Ford: Research and Application of Upper Extremity Tool Survey", 20<sup>th</sup> Annual Utah Conference on Industrial Hygiene and Safety, Salt Lake City, Utah, October 2003.
90. Bloswick, D.S., "Ergonomic Issues and Concerns in Trail Building," Trails Maintenance Best Practices Workshop, Denver, Colorado, February 1-2, 2005.

**E. TRADE AND NONREFEREED PROFESSIONAL PUBLICATIONS:**

1. Redfern, M., and Bloswick, D.S., "Preventing Slip and Fall Injuries Requires Environmental Controls", Occupational Health and Safety, September 1987.
2. Bloswick, D.S., "Ergonomics-Part 1", ASSE Safety News Utah Chapter, January 1990.
3. Bloswick, D.S., "Ergonomics-Part 2: Upper Extremity Cumulative Trauma Disorders", ASSE Safety News Utah Chapter, March 1990.
4. Bloswick, D.S., "Ergonomics-Part 3: Anthropometry", ASSE Safety News Utah Chapter, April 1990.
5. Bloswick, D.S., "Ergonomics-Part 4: Introduction to Manual Material Handling", ASSE Safety News Utah Chapter, May 1990.
6. Bloswick, D.S., "Ergonomics-Part 5: Manual Material Handling Analytical Tools (NIOSH WPG)", ASSE Safety News Utah Chapter, September 1990.
7. Bloswick, D.S., "Ergonomics-Part 6: Manual Material Handling Analytical Tools (Biomechanical Models)", ASSE Safety News Utah Chapter, December 1990.
8. Suruda, A., Bloswick, D.S., Egger, M., Wing, H., Lillquist, D., "Fatal Lift-Truck-Related Injuries from Tipover and Rollover", Material Handling Engineering, June 1997, 71-75.

**F. TECHNICAL PRESENTATIONS (PROFESSIONAL SOCIETY MONTHLY MEETINGS, ETC):**

1. Bloswick, D.S., "Ergonomics and Human Factors - The State of the Science", Presented to the Utah Chapter of the American Society of Safety Engineers, Salt Lake City, Utah, March 1987.
2. Bloswick, D.S., "Manual Material Hazards and Upper Extremity Hazards in

- Occupational Tasks”, Presented to the ASSE Northern Utah Section, Ogden, Utah, March 1988.
3. Bloswick, D.S., “Ergonomic Studies at The University of Utah”, Presented at the Regional Institute of Industrial Engineers Student Conference, Salt Lake City, Utah, February 1988.
  4. Bloswick, D.S., “Ergonomic Injury Prevention Strategies”, Presented twice for VA Hospital Health and Safety Meetings, Salt Lake City, Utah, February 1988.
  5. Bloswick, D.S., “Ergonomics and Injury Prevention”, Presentation to Utah Federal Safety Council, Salt Lake City, Utah, March 1990.
  6. Bloswick, D.S., “Cumulative Trauma Disorders in the Workplace”, Utah Occupational Health Services Quarterly Luncheon, Salt Lake City, Utah, July 1990.
  7. Bloswick, D.S., “Ergonomic Interventions in Industry”, Thiokol Corporate Safety Management Team, Ogden, Utah, January 1991.
  8. Bloswick, D.S., “Ergonomics and Upper Extremity Cumulative Trauma Disorders”, Morton International and Invitees, Ogden, Utah, February 1991.
  9. Bloswick, D.S., “Biomechanics of Lifting, Lifting Limits, and Biomechanical Models”, 6th Annual Medicine in the Workplace Seminar, Richland, Washington, March 1991.
  10. Bloswick, D.S., “Hands on Practice with the University of Michigan Model”, 6th Annual Medicine in the Workplace Seminar, Richland, Washington, March 1991.
  11. Bloswick, D.S., “Ergonomics Basics”, Wyoming Montana Safety Council Challenges of Supervision, May 1991.
  12. Bloswick, D.S., “Cumulative Trauma Disorders”, U.S. Bureau of Mines Monthly Meeting, Salt Lake City, Utah, April 1992.
  13. Bloswick, D.S., “Ergonomics and Nursing”, Utah Occupational Health Nurses Association Meeting, Salt Lake City, Utah, October 1992.
  14. Bloswick, D.S., “Biomechanics of Lifting, Lifting Limits, and Biomechanical Models”, Evans and Sutherland Health and Safety Meeting, Salt Lake City, Utah, November, 1992.
  15. Bloswick, D.S., “Ergonomics Fundamentals”, Cache Valley Chamber of Commerce Safety Meeting, Logan, Utah, October 1993.
  16. Bloswick, D.S., “Introduction to Ergonomic Hazard Analysis”, Abbott Labs Safety Meeting, Sandy, Utah, November 1993.
  17. Bloswick, D.S., “Ergonomics Overview”, ASSE Northern Utah Section, Ogden, Utah, February 1994.
  18. Bloswick, D.S., “Ergonomics and the Americans With Disabilities Act”, ASSE Northern Utah Section, Ogden, Utah, March 1994.
  19. Bloswick, D.S., “Ergonomics Overview”, Datachem Labs Safety Meeting, Salt

Lake City, Utah, April 1994.

20. Bloswick, D.S., “Ergonomics and Office Cumulative Trauma”, Presentation at Kennecott Corporate Safety Meeting, November, Salt Lake City, Utah, November 1994.
21. Bloswick, D.S., “Ergonomics and Strain Injury”, Weber State University Seminar on the Impact of the Americans with Disabilities Act on Higher Education, Ogden, Utah, November 1994.
22. Bloswick, D.S., “A Review of Basic Body Biomechanics and User Friendly Tools to Assess Manual Material Handling Risk”, University of California Irvine Occupational Medicine Grand Rounds, Irvine, California, January 1995.
23. Bloswick, D.S., “Ergonomics at the Help Desk”, Utah Chapter of the Help Desk Institute, Ogden, Utah, November 1995.
24. “Seated/VDT Workplace Guideline”, University of Utah Marriott Library, Salt Lake City, Utah, May 1998.
25. Bloswick, D.S., “ARUP Ergonomics-UECTD/Seated/VDT/Laboratory Guidelines”, ARUP, Salt Lake City, Utah, June 1998.
26. Bloswick, D.S., “Ergonomic Analysis Methodologies”. AIHA, Utah State University, Logan, Utah, March 2000.
27. Bloswick, D.S., “Body Mechanics”, Annual Utah Winter Conference for School Food Service Management, St. George, Utah, March 2000.
28. Bloswick, D.S., “Upper Extremity Cumulative Trauma Disorders (Such as Carpal Tunnel Syndrome)”, Seated Workstations Design, U.S. Bureau of Land Management, Salt Lake City, Utah, May 2000.
29. Bloswick, D.S., “Overview of Ergonomics”, Department of Physical Medicine & Rehabilitation Grand Rounds, Salt Lake City, May 2000.
30. Bloswick, D.S., “Body Biomechanics”, Cache County School District Child Nutrition Workshop, Logan, Utah, August 2000.
31. Bloswick, D.S., “Evaluating Mechanisms of Injury as Applied to Allen Decision Causation Criteria”, Workers Compensation Defense Attorneys Association, Salt Lake City, Utah, September 2000.
32. Bloswick, D.S., “Recent Developments in the OSHA Ergonomics Standard”, Utah Self Insured Association Annual Meeting, Salt Lake City, Utah, February 2001.
33. Bloswick, D.S., “OSHA’s Ergonomic Standard”, American Society of Safety Engineers, Great Salt Lake Chapter, Salt Lake City, Utah, March 2001.
34. Bloswick, D.S., “Critical Review of UECTD Research”, Department of Family and Preventive Medicine Research Roundtable, Salt Lake City, Utah, October 2001.
35. Bloswick, D.S., “Task Causations of Upper Extremity Cumulative Trauma Disorders”, Hand Surgery Fellows Monthly Meeting, University of Utah Hospital, Salt Lake City, Utah, November 2001.

36. Bloswick, D.S., "Back Injury Prevention", University of Utah Plant Operations, February 2003 (250 attendees).
37. Bloswick, D.S., "Ergonomics", Intermountain Health Care Occupational Medicine Grand Rounds, Salt Lake City, Utah, November 2003.
38. Bloswick, D.S., "Occupational Risk Factors for Upper Extremity Cumulative Trauma Disorders", University of Utah Department of Orthopedics Weekly Hand Conference, Salt Lake City, Utah, March 2004.

**G. MISC. PRESENTATIONS AND DEMONSTRATIONS:**

1. "Ergonomics and Engineering", Presentations at Bryant Junior High Career Day and Science Classes, Salt Lake City, Utah, 1988 and 1989.
2. "Robots and Stuff", Six Presentations at Washington Elementary School, Salt Lake City, Utah, May 1990.
3. "Some Uses of Computers in Ergonomics and Engineering", Presentation at West High School Computer Class, Salt Lake City, Utah, November 1990.
4. "Designing for Humans - Increasing the Fun in Engineering Fundamentals", University of Utah Undergraduate Convocation, Salt Lake City, Utah, September 1993.
5. "Ergonomics and Biomechanics", Presentation at Reid Elementary School Careers Class, Salt Lake City, Utah, January 1994.
6. "Rehabilitative and Assist Devices for Senior Citizen", Utah Gerontological Society Annual Conference, Salt Lake City, Utah, 1993. (Demonstration)
7. "Rehabilitative and Assist Devices for Senior Citizen", Salt Lake County Aging Fair, Salt Lake City, Utah, October 1993. (Demonstration)
8. "Project Youth", University of Utah Lowell Bennion Community Service Center, Salt Lake City, Utah, May 1994.
9. "Rehabilitative and Assist Devices for Senior Citizen", Salt Lake County Aging Fair, Salt Lake City, Utah, October 1994. (Demonstration)
10. "Ergonomics and Assistive Technology", Utah State University Interdisciplinary Training Program in Assistive Technology, Salt Lake City, Utah, November 1994.
11. "Anthropometry and Upper Extremity Cumulative Trauma Disorders", University of California Irvine Occupational Medicine Resident Didactic, Irvine, California, January 1995.
12. "Project Youth", University of Utah Lowell Bennion Community Service Center, Salt Lake City, Utah, May 1995.
13. "Brown Bag Workshop", Minority Engineering Program, Salt Lake City, Utah, May 1995.

14. Presentation to MESA (Math Engineering Science Achievement) Students, Salt Lake City, Utah, December 1995.
15. Tour of the Ergonomics and Safety Lab for the Society for Women and Minorities in Engineering, April 1996.
16. "Project Youth", University of Utah Lowell Bennion Community Service Center, Salt Lake City, Utah, May 1996.
17. Tour of the Ergonomics and Safety Lab for the Centennial Open House, Salt Lake City, Utah, May 1996.
18. Ergonomics Presentation to Churchill Junior High School Students, October 1996.
19. Moderator, National Safety Council Conference Institute for Safety Through Design, Chicago, Illinois, September 1996.
20. Preparation for College, Benchmark High School, Bountiful Utah, March 2002
21. Presentation to Girl Scouts of Utah, "Build a Better Future Through Engineering", hosted by the College of Engineering and Girl Scouts of Utah, 2003.
22. Presentation to Chinese Delegation of Health & Safety Officers, Utah Engineering Experiment Station, January 2003.
23. Bennion 6<sup>th</sup> grade ELP lab tour and demonstration, March 2003.
24. "Worksite Ergonomics," Presentation to Southeast Alaska Regional Health Center, June 2004.
25. "Ergonomics in Patient Handling," Presentation to Southeast Alaska Regional Health Center, June 2004.
26. Miscellaneous presentations at Elementary Schools in Salt Lake City area and tours of Ergonomics and Safety Lab for elementary and high school groups.

**ERGONOMIC CONSULTATION (C) AND/OR TRAINING (T) FOR NUMEROUS COMPANIES, INCLUDING:**

Abbot Critical Care Inc., Salt Lake City, Utah (C,T)  
 AIHA Chapter, Idaho Falls, Idaho (T)  
 Alliant Tech System (Hercules), Salt Lake City, Utah (T)  
 Allied Signal, Clearfield, Utah (T)  
 ASSE Societies in Idaho, Wyoming, Montana (T)  
 Barrick Gold Strike Mines, Elko, Nevada (C)  
 Becton Dickinson., Sandy, Utah (C,T)  
 Conoco, Denver, Colorado (T)  
 Conoco, Lake Charles, Louisiana (T)  
 Edwards Air Force Base (T)  
 Expert Testimony in Legal Cases throughout the US (C)

FirstMed Inc, Salt Lake City, Utah (C,T)  
FMC, Green River, Wyoming (T)  
Ford Motor Company, Dearborn, Michigan (C,T)  
General Chemical, Inc, Green River, Wyoming (C)  
Georgia Pacific, Portland, Oregon (T)  
IBM, Colorado Springs, Colorado (C)  
Indiana Labor Management Council, Indianapolis, Indiana (C,T)  
Industrial Indemnity Insurance Co., San Francisco, California  
LDS Church, Salt Lake City, Utah (C)  
Methodist Occupational Health, Indianapolis, Indiana (T)  
National Park Service (T)  
O.C. Tanner, Salt Lake City, Utah (C,T)  
Optical Coatings Lab, Inc., Sacramento, California (T)  
OSHA Training Institute, Des Plains, Illinois (T)  
OSHA Technical Center, Salt Lake City, Utah (C,T)  
OSHA, Regions I,II, III, VIII, IX, X (C,T)  
Plum Creek Manufacturing, Columbia Falls , Montana (C)  
Signetics, Incorporated, Salt Lake City, Utah (C)  
Skaggs Telecommunication Services (T)  
Thiokol Space Operations, Brigham City, Utah (C,T)  
U.S. Navy (C,T)  
U.S. Post Office, Salt Lake City, Utah (C)  
University of Washington, College of Engineering (T)  
Utah OSHA (T)  
Utah State University, Logan, Utah (C)  
Utah Workers Compensation Fund, Salt Lake City, Utah (C)  
Western Zirconium), Salt Lake City, Utah (T)  
WINCO, Idaho Falls, Idaho (C)  
Work Hardening Association of Oregon (T)

## **PATENTS/INVENTIONS:**

“Seat-Lift Wheelchair”.

Named Patentees: Donald S. Bloswick, Ben D. Shirley, Eric M. King.

Appl. No.: 110,844

U.S. Patent No.: 5,513,867

Issue Date: May 7, 1996

“Muscle Powered Therapeutic Vehicle”

Name Patentees: Glade Howell, Jeff W. Bean, Judith L. Gooch, Donald S.

Bloswick, Don R. Brown

Appl. No.: 376,128

U.S. Patent No.: 5,501,476

Issue Date: March 26, 1996

“Muscle Powered Therapeutic Vehicle System”

Name Patentees: Judith L. Gooch, Donald S. Bloswick, Don R. Brown, Glade Howell, Jeff W. Bean

Appl. No.: 7405243

U.S. Patent No.: 5,848,955

Issue Date: December 15, 1998

“Tracked Wheelchair Carriage-Prototypes I and II”

Name Patentees: Donald S. Bloswick, Zack Evans, Shem Peterson, and Matt Greef

Status: Submitted to University of Utah Technology Transfer Office - Provisional patent submitted, 2005

“Wheel Chair Advantage Mobility System” (Hand propelled wheelchair with friction brake)

Name Patentees: Donald S. Bloswick, Jeff Clark, Miguel Gallegos, Brian Horne, Abe Kearl, and Ryosuke Osawa

Status: Submitted to University of Utah Technology Transfer Office - Provisional patent submitted, 2005

“Alternative Handcart for Workers with Hand/Wrist Disorders”

Name Patentees: Donald S. Bloswick, Glade Howell, Mark Dumas

Status: Submitted to University of Utah Technology Transfer Office

“Wheelchair with Foot Propulsion Device”

Name Patentees: Donald S. Bloswick, Don R. Brown, Christopher Dansie

Status: Submitted to University of Utah Technology Transfer Office

“Alternative Door Latches for People with Disabilities”

Name Patentees: Donald S. Bloswick, Bruce Bammes

Status: Submitted to University of Utah Technology Transfer Office

## UNIVERSITY COMMITTEE MEMBERSHIPS

### University Committees:

UU Salary and Annuities Committee	1988-1990
UU Institutional Review Board (Research with Human Subjects)	1991-1994
UU Ergonomics Task Force	1995-2001
UU Campus Recreation Committee	1996-1998
UU Parking Violation Appeals Committee	1997-2000
UU Internal Review Division of PT	Oct/Nov 1999
UU Union Board	1998-2002
UU Bookstore Committee	2000-2002
UU Conflict of Interest Committee	2002-2003
UU Undergraduate Council	2003-present

College Committees:

College of Engineering Student Appeals Committee	1986-Present
College of Engineering College Council	1988 - 1991, 2002-2004
College of Engineering Convocation Committee	1996-Present
College of Engineering Safety Committee	2001-Present

Departmental Committees:

Family & Prev. Medicine MSPH/MPH Admissions Committee	1990-1999
Family & Prev. Medicine MSPH/MPH Policy Committee	1990-2000
Family & Prev. Medicine IH Search Committee	2004
Bioengineering Biomechanics Committee	1990-1992
ME Graduate Committee	1986-1990 1995-2002 2004-Present
ME Curriculum Committee	1988-1991
ME Manufacturing Search Committee	1996-1998
ME Search Committee – Mechanics	2004
Chair, Design, Manufacturing, & Controls Division	1993-94, 1996-Present
ME Scholarship Committee	1999-Present

**MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL SOCIETIES:**

Institute of Industrial Engineers, Senior Member,  
American Society for Engineering Education, Professional Member  
American Society of Safety Engineers, Member  
American Society of Mechanical Engineers, Member  
International Society of Biomechanics, Member  
American Society of Biomechanics, Member  
Human Factors and Ergonomics Society, Member  
American Conference of Government Industrial Hygienists, Associate Member

**MEMBERSHIP IN COMMITTEES/BOARDS, ETC.:**

Editorial Board, Journal of ASTM International, 2004  
NIOSH Grant Review Study Section, 2003  
Grant Reviewer, Ontario Workplace Safety and Insurance Board, 2001, 2003  
NIOSH Grant Review Panels, 2001, 2003  
Technical Advisor, OSHA eTool Web Site, 2002-present  
Selection Committee, Workers Compensation Fund Safe Workplace Scholarship, 1997-present  
Vice-Chair, National Safety Council Institute for Safety Through Design, 1996-2002  
Member, ANSI A14 Ladder Committee, 1986-present  
Member, ASTM Committee E-34 on Occupational Health and Safety, 1990-1996  
Community Advisory Council, Worker Eval. and Reconditioning Center, Sandy, Utah, 1990-1994  
Site Reviewer for National Institute for Occupational Safety and Health. Sites reviewed: Texas Tech, University of Minnesota, University of Houston Health Sciences

Center (Texas A&M), West Virginia, Workplace Health Fund (Wash. D.C.),  
University of Washington, Johns Hopkins, University of Illinois at Chicago,  
NYU/NJIT, U Mass-Lowell  
Executive Board, American Society of Safety Engineers, Utah Chapter, 1989-1992  
Executive Board, Institute of Industrial Engineers, Great Salt Lake Chapter, 1987-1988  
Joint Utah Conference on Safety and Health, Annual Conference Organizing Committee,  
1988-92

### **REGISTRATIONS/CERTIFICATES:**

Professional Engineer No. 38122, Texas  
Certified Professional Ergonomist No. 427

### **HONORS AND AWARDS:**

Outstanding Patent, UU College of Engineering, 1997  
Award from United Cerebral Palsy Association for Contributions to Rehabilitation, 1994.  
Borchard-Bennion Teaching Fellow, University of Utah, 1991-94.  
Outstanding Industrial Eng. Educator in Utah, Institute of Industrial Engineers, 1988  
Outstanding Grad Student in Industrial & Operations Eng., The Univ. of Michigan, 1981  
National Institute of Occupational Health and Safety Traineeship, 1980-1983  
College of Engineering Fellowship, University of Michigan, 1979-1980  
Eight civil service commendations and certificates of achievement between 1969-1979  
American Society of Mechanical Engineers Student Award, 1969  
Alpha Pi Mu - Industrial Engineering Honorary, 1970  
Tau Beta Pi - Engineering Honorary, 1968  
Pi Tau Sigma - Mechanical Engineering Honorary, 1967

### **WORKSHOPS AND SHORT COURSES ORGANIZED AND PRESENTED THROUGH THE UNIVERSITY OF UTAH:**

“Introduction to the NIOSH Work Practices Guide”, 1/2-day, Salt Lake City, Utah, October, 1988, 25 attendees.  
“Introduction to Ergonomics”, 1-day, Salt Lake City, Utah, February, 1989, 25 attendees.  
“Ergonomics Workshop”, 1-day, Salt Lake City, Utah, February, 1989, 25 attendees.  
“Ergonomics: Principles and Practice”, 1-day, Salt Lake City, Utah, February, 1990, 45 attendees.  
Workshop, “Integrating Safety Into the Engineering Curricula”, 2-days, Salt Lake City, Utah, April, 1990, 35 Attendees from 15 colleges and universities in 7 states.  
“Industrial Ergonomics”, 3-days, Ogden, Utah, July 1991, 160 attendees.  
“Introduction to Ergonomics”, 1/2 day, Salt Lake City, Utah, February, 1991, 80 attendees.  
“Introduction to Upper Extremity Cumulative Trauma Disorders”, 1/2 day, Salt Lake City, Utah, February, 1992, 25 attendees.  
“Introduction to Manual Material Handling Task Analysis and Redesign”, 1/2 day, Salt Lake City, Utah, February, 1992, 25 attendees.  
“Introduction to Ergonomics”, 2 days, Western Zirconium, Ogden, Utah, June, 1992, 25 attendees.

“Industrial Ergonomics”, 3-days, Ogden, Utah, Jan/Feb 1993, 100 attendees.  
“Upper Extremity Cumulative Trauma Disorder Workshop”, 1/2 day, SLC, UT, Feb, 1993, 25 attendees.  
“Manual Material Handling Workshop”, 1/2 day, Salt Lake City, Utah, February, 1993, 25 attendees.  
“Introduction to Ergonomics”, 3 days, Becton Dickinson, Sandy, Utah, 1997, 20 attendees.  
“Overview of Ergonomics” 1 day, Mervyn’s, Salt Lake City, Utah, 1997, 25 attendees.  
“Overview of UECTD”, 1 hour, ARUP, Salt Lake City, Utah, 1998, 50 attendees.  
“Ergonomics Principles & Practices”, 1 week, CONOCO, Lake Charles, Louisiana, 1999, 15 attendees.  
“Ergonomics Principles & Practices”, 3 days, Allied Signal, Clearfield, Utah, 1999, 10 attendees.  
“Intro to Ergonomics”, 3 days, Beckton Dickinson, Sandy, Utah, 1999, 8 attendees  
“Ergonomics Principles & Practices”, 1 week, CONOCO, Denver, Colorado, 2000, 30 attendees.  
“Overview of Ergonomics” 2 days, Abbott Critical Care, Salt Lake City, Utah, 2002, 15 attendees.  
“Introduction to Industrial Ergonomics: Principles and Practice”, 1-week, Salt Lake City, Utah, annually/semi-annually, presentation, 15-40 attendees.

**SPECIAL QUALIFICATIONS:** Basic German Language Fluency (getting worse all the time), working on French