

Dan MacLeod

Statement of Qualifications

- Considered to be one of the leading practitioners of workplace ergonomics in North America. Listed by *Industrial Hygiene and Safety News* as “one of the key players influencing both government ergonomic standards and industrial control strategies.”
- Author of four hardcover books:
 - *The Rules of Work: A Practical Engineer’s Guide to Ergonomics*, a basic text on workplace ergonomics written for workplace practitioners (Taylor & Francis, 2000).
 - *The Ergonomics Kit for General Industry, second edition*, a “how to” manual for workplace practitioners on setting up practical workplace ergonomics programs in a manufacturing or service environment (Taylor & Francis, 2006).
 - *The Office Ergonomics Kit*, a “how to” manual equivalent to the above kit, but focused on the office environment (CRC Press, 1999).
 - *The Ergonomics Edge*, a lay language primer on understanding and using ergonomics that makes good business sense (John Wiley & Sons, 1995).
- Over thirty years as a consultant, primarily in industrial work settings. Conducted evaluations of work areas in over 1500 different workplaces, involving tens of thousands of separate tasks.
 - Developed innovative corporate programs for Fortune 100 companies that have resulted in thousands of ergonomic improvements and savings of millions of dollars.
 - Instrumental in identifying the epidemic of upper extremity Musculoskeletal Disorders (MSDs) among autoworkers in the late 1970’s, and consequently pioneered workplace ergonomics programs in auto plants. Wrote the first lay language booklet on ergonomics, published in 1982, aimed at the auto industry and general metal working operations.
 - Comprehensive experience in industry, ranging from the office environment and hospitals to underground mining and steel mills.
 - Retained by the American Meat Institute and major meatpacking companies in the 1980’s to develop industry-wide programs that have successfully reduced MSDs in this high-risk industry. Represented the industry in working with OSHA to develop the Ergonomics Guidelines for the Meatpacking Industry.
- Widespread reputation as an energetic and down-to-earth public speaker and trainer.
- Solid background in developing low-cost and common-sense ergonomic improvements, using a style that promotes innovation and creativity.

Professional Experience

1997 - present	President, Dan MacLeod LLC
1994 - 1997	Director of Ergonomics, Clayton Environmental Consultants
1987 - 1994	President, ErgoTech, Incorporated (acquired by Clayton)
1984 - 1987	Ergonomics Consultant
1973 - 1984	Health and Safety Department, United Auto Workers Int'l. Union
1972 - 1973	University of Illinois Medical Center
1969 - 1971	University of Minnesota

Education

1987	MA, Industrial Relations, University of Minnesota
1973	MPH, Occupational Health and Safety, University of Illinois Medical Center
1971	BA, American Studies (<i>summa cum laude</i>), University of Minnesota

Special Experience

- Certified Professional Ergonomist (CPE)
- Member of ANSI Z-365 Committee for Control of Cumulative Trauma Disorders and chair of Work Organization subgroup
- SEMI S8-95 Certified (semi-conductor industry)
- Swedish Information Service award — Study of ergonomic developments in Sweden, the world leader in ergonomics
- Secondary school education in Sweden (1965-66)

Organizations

Ergonomics and Human Factors Society
Artistic Blacksmiths Association of North America (ABANA)

Languages

Swedish (fluent)
Spanish (good)
French, German (fair)
Chinese (basic verbal; reading level 400 characters)

Publications and Presentations

Full Length Books

2006. *The Ergonomics Kit for General Industry, second edition*. Taylor & Francis.
2000. *The Rules of Work — A Practical Engineering Guide to Ergonomics*. Taylor & Francis.
1999. *The Office Ergonomics Kit*. CRC Press.
1995. *The Ergonomics Edge: Improving Safety, Quality, and Productivity*. John Wiley & Sons.

Papers and National Presentations

2010. Ergonomics Successes – Before-and-After Measurements. NJ ASSE-AIHA
2009. Before-and-After Interventions – Quantitative Comparisons. Ergonomics Intervention and Research Conference, Oakland, CA
2004. Ergonomics and Lean Manufacturing. Eastern Ergonomics Conference and Exposition. New York.
2003. Case Examples of Practical Ergonomics from the U.S. Postal Service. National Ergonomics Conference and Exposition. Las Vegas
2001. Introduction to Ergonomics. Gulf Cooperation Council, First Annual Occupational Safety and Health Conference. Dubai, United Arab Emirates (UAE).
1999. Ergonomía Practica. Congreso Internacional de Ingeniería Industrial. Saltillo, Mexico.
1996. Ergonomics Cost Benefits Case Study in a Paper Manufacturing Plant. *Proceedings of the Human Factors and Ergonomics Society Conference*. Philadelphia.
1996. Advancements in Ergonomics. Annual Conference of the American Society of Safety Engineers. San Diego.
1996. What You Can Learn from the Meat Industry. ErgoExpo. Chicago.
1993. Quality and Ergonomics. National Safety Congress. Chicago.
1992. Basic Ergonomics Task Analysis. Annual Conference of the American Society of Safety Engineers. Denver.
1992. Work organization and cumulative trauma disorders. Draft report to the American National Standards Institute Z-365 Committee on Cumulative Trauma Disorders.
1992. Implementation. Draft report to the American National Standards Institute Z-365 Committee on Cumulative Trauma Disorders.

1992. Ergonomic task analysis: concepts, case studies, and advanced measurement techniques. Proceedings of the annual conference of the American Society of Safety Engineers. Minneapolis. With Eric Kennedy and Wayne Adams.

1990. Evaluation of ergonomic interventions in the meat industry using vibrometry. Paper presented at the annual conference of the American College of Occupational Medicine. Baltimore.

1990. Practical use of ergonomics. National Safety Congress. Denver.

1989. Practical ergonomic improvements in the meat industry. Human Factors Society Annual Meeting. Denver.

1988. In-plant case studies. Paper presented at the University of Michigan/Loyola University conference on cumulative trauma of the upper extremities. Chicago.

1988. Workplace and Personal Stresses and Insurance-Related Losses Due to Accidents and Injuries. Unpublished masters thesis, University of Minnesota Graduate School.

Training Booklets and Videotapes

2000. *Putting on Your Ergonomics Glasses* (videotape series and workbook). Minneapolis: Comprehensive Loss Management Incorporated.

2000. *The Ergonomics Manual*. Minneapolis: Comprehensive Loss Management Incorporated.

1998. *The User-Friendly Office*. Self-published.

1992. *Ergonomic Task Analysis* (videotape series and workbook). Minneapolis: Comprehensive Loss Management Incorporated. With Eric Kennedy.

1991. *Ergonomics in the Meat Industry*. Washington D.C.: American Meat Institute.

1991. *Ergonomics in the Baking Industry*. Washington D.C.: American Bakers Association.

1991. *Ergonomics for Managers*. Wichita: Excel Corporation.

1982. *Strains and Sprains*. Detroit: International Union, UAW.

1980. *What Every UAW Representative Should Know About Health and Safety*. Detroit: International Union, UAW.

1978. *Noise Control — A Worker's Manual*. Detroit: International Union, UAW.

Articles

2004. Cognitive Ergonomics. *Industrial Engineer*. March.

1995. Ergonomics Task Analysis: Picking the Right Tool. *Occupational Hazards* June: 71-73.

1994. Setting Up Ergonomics Programs in Health Care Organizations. *In Plant, Technology and Safety Management Series 2:33-38*. Oakbrook Terrace, IL: Joint Commission on Accreditation of Healthcare Organizations (JCAH).

1991. Identifying and Controlling Injuries. In *Cumulative Trauma Disorders in the Workplace*. Washington, D.C.: BNA Press.

1984. *Why Sweden has better working conditions than the U.S.* Monograph: Working Life in Sweden Series No. 28. New York: Swedish Information Service.

Partial Client List

Lockheed-Martin	Pitney Bowes
Tiffany & Co.	Emerson Electric
Daimler-Chrysler	ACCO
Federal Express	Fortune Brands
Boise Cascade	US Postal Service
Wyman-Gordon	Omaha Steaks
Johnson & Johnson	Wyeth-Ayerst Lederle Labs
Lucent Technologies	St. Paul Companies
McMaster-Carr	Saturn
Cargill	Harsco
Alcoa	New York Hospital Assoc.
Saint-Gobain	Mercedes of North America
Harley-Davidson	Fleming
Hewlett Packard	Xerox
Kellogg's	American Airlines
Stouffer Foods	Northwest Airlines
Philip Morris	United Airlines
Mayo Clinic	Hallmark Cards
American Meat Institute	American Bakers Association
Control Data	Honeywell
Washington Scientific	Graco
Onan	ConAgra
State of Minnesota	UOP

In the 1970's, as an in-house consultant to the United Auto Workers International Union (UAW), Detroit, worked with:

General Motors	Ford
Chrysler	Caterpillar
International Harvester	John Deere
J.I. Case	TRW
Rockwell International	Budd