

WILLIAM G. SWITALSKI, P.E.

**Switalski Engineering, Inc.
4228 Commercial Way
Glenview, IL 60025
847-297-8447
847-297-6615 Fax**

Mechanical Engineering Safety and Design Consultant

EDUCATION

St. Laurence High School, Oak Lawn, Illinois, May 1976, Completed an honors college preparatory program
Bachelor of Science in Mechanical Engineering with honors, Illinois Institute of Technology, Chicago, IL, May 1980
Master of Mechanical Engineering (MME), Illinois Institute of Technology, Chicago, Illinois, May 1989

HONORARY SOCIETIES

Pi Tau Sigma - Mechanical Engineering Honorary

PROFESSIONAL CERTIFICATION

Professional Engineer; State of Illinois

PROFESSIONAL DEVELOPMENT

1. "Safety Analysis Methods for Farm Machinery," Agri-Component Exposition, Kansas City, MO, June 9, 1983.
2. "Product Liability: Theory v Practice," Greater Chicago Plastics and Allied Industries Council for the City of Hope, Niles, IL, November 16, 1983.
3. "The Analysis and Design of Mobile Crane Safety Systems," Grove Manufacturing Company, Shady Grove, PA, March 26-28, 1984.
4. "Safety and Human Factors Considerations in the Design of Electrodynamical Separators," Greater Portland Production Engineers, Portland, OR, June 2, 1984.
5. "How Long Should a Product Last?" American Society of Mechanical Engineers Design

Engineering Education Committee; Chicago, Illinois; McCormick Place, March 3, 1987.

6. "Computer Programs for Design Engineers," American Society of Mechanical Engineers Design Engineering Education Committee; McCormick Place, Chicago, Illinois, March 3, 1987.
7. Oakton Community College, Des Plaines, Illinois; Fundamentals of the Internet, course no. WWW 111; August to December, 2004

LECTURES & SEMINARS

Seminar: "The Analysis and Design of Mobile Crane Safety Systems," Grove Manufacturing Co., Shady Grove, PA, March 26, 1984. Topic: Insulated Links for Cranes.

Seminar: "Lockout-Tagout During Machine Maintenance" - American Contractors Insurance Group. Triodyne Inc., Niles, Illinois; September 13, 1996.

Guest Lecturer: ASME Student Chapter; Notre Dame University, South Bend, Indiana; November 4, 1996. Topic: "The History and Development of Automated Pinspotting."

Seminar: "Construction Crane/Overhead Powerline Contact" - Construction Industry Manufacturers Association. Triodyne Inc., Niles, Illinois; December 11, 1997

STANDARDS COMMITTEES

1. Title: Accredited Standards Committee ASC-A14, Safety Codes for the Construction, Care and Use of Ladders.
Duration: August, 1995 to March, 2004.
Position: Representative of Triodyne, Inc., Technical Co-Secretariat at Executive Sub-Committee (ExSC) meetings.
2. Committee: American National Standards Institute A14.7, Mobile Ladder Stands and Ladder Stand Platforms
Member: August, 2004 to Present
3. Committee: American National Standards Institute A14.8, Ladder Accessories
Member: November, 2004 to Present

PROFESSIONAL SOCIETIES

American Society of Mechanical Engineers - Associate Member through 2004

American Society of Safety Engineers – Member through 2004

EMPLOYMENT

1. Employer: Switalski Engineering, Inc., Glenview, Illinois
 Business: Engineering and Safety Consulting
 Position: Mechanical Engineering Safety and Design Analysis
 Duration: March, 2004 - Present
 Duties: On-site and laboratory investigation of industrial and consumer product accidents. Design and safety analysis of machinery, mechanical components, consumer products, and the physical environment as related to science and mechanical engineering.
2. Employer: Triodyne Inc., Northbrook, Illinois (Niles, Illinois)
 Business: Engineering Consulting
 Position: Senior Mechanical Engineering Safety and Design Analysis Consultant
 Duration: May 1980 - April 2004
 Duties: On-site and laboratory investigation of industrial and consumer product accidents. Training and supervision of part-time student help. Design and safety analysis of machinery, mechanical components, consumer products, and the physical environment as related to science and mechanical engineering.
3. Employer: Institute for Advanced Safety Studies, Niles, Illinois
 Business: A not-for-profit safety research consortium
 Position: Research and Development
 Duration: September 1984 - 1995
 Duties: Coordination and participation in safety research programs.
4. Employer: Alliance Tool and Manufacturing; Maywood, Illinois
 Business: Manufacturers of high speed and carbide tipped cutting tools
 Position: Engineering and cost estimation
 Duration: June 1984 - November 1984
 Duties: Cost estimation, evaluation and design of special cutting tools. Coordination of activities for the expansion of the product line. Computerization of record keeping and office operation systems.
5. Employer: Illinois Institute of Technology, Chicago, Illinois
 Business: Recreation Room Operations
 Position: Automatic Pinsetter Mechanic
 Duration: February 1979 - May 1979 and August 1979 - May 1980
 Duties: Repair and maintenance of all bowling equipment, and training of student

- help.
6. Employer: Brunswick Corporation, Muskegon, Michigan
 Business: Bowling Equipment Design and Manufacturing
 Position: Manufacturing Engineer
 Duration: June 1979 - August 1979
 Duties: Participated in an automatic pinsetter parts cost-reduction project, and assisted in the preliminary development of modifications to reduce pinsetter power consumption. Preparation of engineering drawings compatible with computer-aided manufacturing processes.

 7. Employer: Gage Park Recreation Center, Inc., Chicago, Illinois
 Business: Bowling and Recreation
 Position: Chief Automatic Pinsetter Mechanic
 Duration: September 1974 - January 1979
 Duties: Repair and maintenance of the automatic pinsetting equipment (62 machines) and all other associated bowling lane equipment. This entailed record keeping, parts purchasing, organization of summertime mechanical overhauls, training of high school age summer help, electrical maintenance of the building, and knowledge of welding.

 8. Employer: Castle Engineering Co., Chicago, Illinois
 Business: Supply clients with qualified drafting personnel and related equipment
 Position: Drafting Apprentice
 Duration: June 1976 - August 1976
 Duties: Drafting and detailing of machine parts and assemblies

OTHER BUSINESS INTERESTS

Business : Lawn Bowl, Inc. dba Lawn Lanes
 Location: Chicago, Illinois
 Position: Director and Co-proprietor
 Duration: September, 1993 to December 31, 2000

Business: Countryside Lanes, Inc. dba Rolling Lanes
 Location: Countryside, Illinois
 Position: Secretary/Treasurer and Co-proprietor
 Duration: June, 1994 to Present

VOLUNTEER ORGANIZATION

Illinois Institute of Technology Alumni/Admissions Program, 1983.

Purpose: Contact and counsel pre-freshman engineering students. Offer guidance in the areas of time-budgeting, course of study, financial planning, living accommodations, etc.

PUBLICATIONS

1. William G. Switalski and Ralph L. Barnett, "Two Press Guards...A Second Look," National Safety News v. 123, no. 5 (May 1981): 64-5. Reprinted in Triodyne Safety Brief v. 2, no. 4 (September 1984).
2. William G. Switalski and Ralph L. Barnett, "Trailer Hitches & Towbars," Triodyne Safety Brief v. 3, no. 3 (July 1985).
- 3a. William G. Switalski and Ralph L. Barnett, "Principles of Safety," American Society of Agricultural Engineers, Paper No. 87-5513. Paper presented at the 1987 International Winter Meeting of the American Society of Agricultural Engineers, Chicago, December 17, 1987, 39 pages.
- b. Triodyne Safety Brief v. 5 #1 (February 1988)
- c. Triodyne Safety Brief v.24, #1 (July 2003)
- d. Forensic Engineering v. 1 #3 (1988): 153-173
- e. "Overseas Product Liability Information 1993 No. 1," ("Principles of Safety") Tokyo, The Yasuda Fire & Marine Insurance Company, Limited., 1993.
4. William G. Switalski and Edward A. Fritz, "Small Agricultural Tractor ROPS New Operator Protective Zone," Society of Automotive Engineers, Paper No. 911782. Paper presented at the 1991 SAE International Off-Highway & Powerplant Congress & Exposition, Milwaukee, Wisconsin, September 10, 1991. Also, Paper No. 911615, presented at the American Society of Agricultural Engineers 1991 International Winter Meeting, Chicago, Illinois, December 19, 1991.
5. William G. Switalski and Ralph L. Barnett, "Truck Mounted Ladder Racks," Triodyne Safety Bulletin v. 6, No. 2 (December 1997).
6. William G. Switalski, "The Washing Machine Flood," Triodyne Safety Bulletin v. 9, No. 1 (January 2000).
7. William G. Switalski, Primary vs. Secondary Protection: Why Interlocks Are Not An Acceptable Alternative To Lockout," Triodyne Safety Bulletin v. 9, No. 2 (September 2000).

- 8a. William G. Switalski and Ralph L. Barnett, "Case Study - The Safety of Wood Railings," American Society of Mechanical Engineers, Paper No. IMECE 2001/SERA-24009. Paper presented at the 2001 ASME International Mechanical Engineering Congress & Exposition; New York, New York, November 14, 2001.
- b. Triodyne Safety Brief v. 18, No. 1 (March 2001).
- 9a. William G. Switalski and Ralph L. Barnett, "Auto-Setting Ladder Inclination," American Society of Mechanical Engineers, Paper No. DETC 2003/SERA-48689. Paper presented at the ASME 2003 Design Engineering Technical Conference and Computer and Information in Engineering Conference; Chicago, Illinois, September 2-6, 2003.
- b. Triodyne Safety Brief v. 24, No. 1 (July 2003).
- 10. Switalski, William G., "Developing a Guardrail Test Criteria," Safety and Forensic Engineering (SAFE) Journal, volume 4, January 2005

TECHNICAL RESEARCH OR TESTING REPORTS

- 1. "CAD/CAM Techniques as Applied to Metalworking Operations," Illinois Institute of Technology. December, 1987, 40 pages.
- 2. "Mechanical Engineering Aspects of Overhead Powerline Contact," Project Report for Master of Mechanical Engineering Degree: April, 1989; 81 pages.

Part I: "An Evaluation of Two Construction Crane Safety Devices for Preventing Electrocutation."
Part II: "Mechanical Aspects of a Minimum Cost Power - Distribution System"

FEE SCHEDULE

(Effective October 1, 2005)

Switalski Engineering Inc.

Professional fees for Engineering Services - typical services include:

File material review, Research, Report preparation,
Technical consulting, Meetings, Travel time, Deposition
preparation and testimony, Trial preparation and testimony----- \$195/Hour

Out of town activities are charged an 8-hour minimum.

Air travel delay time----- \$95/Hour

Expenses - charges typically include:

Air Fare*, Lodging, Meals, Rental Car**, Taxi, Long Distance
and Wireless fees, Tool/Instrument Rental, Outside Services----- At cost

*Non-refundable tickets are usually purchased. Tickets
will be billed at cost if the client cancels or re-schedules
the travel once a ticket has been purchased. Any
applicable booking fees or re-ticketing fees are extra.

** Full insurance coverage is purchased.

Mileage----- \$0.45 per mile

Photographs (Non-Rush):

3-1/2" x 5 (or 4"x 6") prints with ID numbers----- \$1.25 each

3-1/2" x 5 (or 4"x 6") prints numbered and mounted----- \$1.50 each

8"x 10" enlargements----- \$8.00 each

Videotaping----- \$50.00 min.

Videotape duplication----- \$35.00 per tape

Videotape to/from DVD duplication----- \$35.00 first hour

Plus \$20.00 each additional hour; (1 hour min.)

Photocopying----- \$0.20 per page

Printing from e-mail or computer disk media (black & white)--- \$0.23 per page

Printing from e-mail or computer disk media (color)----- \$0.35 per page

Expenses related to Outside literature searches, Model building, Testing,
Graphics, Experimentation, Use of Outside Laboratories, Storage,
Test Facilities, etc. will be billed on the basis of individual costs
and/or quotations.

Invoices are issued on a monthly basis or at the completion of significant work activities.

Past due invoices are subject to 1½ % per month late fee.