

**ROBERT N. ANDRES**  
**ENVIRONMENTAL SAFETY ASSOCIATES**

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Robert Andres graduated from Clarkson University in 1964 with a BS in Interdisciplinary Engineering and Management after three years active duty in the US Army Security Agency. He served as a manufacturing and facilities engineer and supervisor of Technical Services with General Dynamics Corporation – Electronics Division, and as Production and Inventory Control manager with the R.E. Dietz Co. prior to forming Oshex Associates, Inc., a firm specializing in noise and vibration control, machine and plant safety, in 1975, and Environmental Safety Associates (ESA Consulting Services) in 1981.

He is a Professional Member of the American Society of Safety Engineers (ASSE), registered in the Engineering and Consultants Practice Specialties, and past member of the National Society of Professional Engineers (NSPE), Association for Facilities Engineering (AFE), National Registry of Environmental Professionals (NREP), Society of American Military Engineers (SAME), Society of Manufacturing Engineers (SME), Standards Engineering Society (SES), and Construction Specifications Institute (CSI).

Mr. Andres is recognized nationally as a professional in the fields of machine and facility safety, and industrial and community (environmental) noise control, having conducted numerous training and certification courses for engineers, safety and law enforcement personnel with respect to machine and plant safety, industrial and architectural noise and vibration control, and community noise measurement, abatement and legislation. He has served as a consultant to engineering firms, attorneys and insurance companies in over one hundred cases of accident litigation - most resulting from machine or facility-related injuries involving machine operations, maintenance, construction, facility or equipment design, or failure to train or warn. He has worked actively in the field of industrial, product and building noise control, has consulted and/or given testimony in over thirty environmental noise cases, and has played a key technical role in the development and preparation of several noise ordinances.

Since 1991, he has held office as Administrator, Newsletter editor, and Director of Professional Development for the Engineering Division of ASSE - and President, Program Coordinator, Community Affairs Director and Newsletter Editor for the Central New York Chapter of ASSE. He has served as a member of the ANSI B11.20 and B11.3 sub-committees, and chaired the ANSI B11.TR3 "Risk Assessment and Reduction" sub-committee. He currently services as technical advisor to Noise Free America. Presentations have included "Machine Safeguarding - An Overview" at ASSE *SafetyTech 2000*, "Machine Safety - A Global Approach" at the ASSE Professional Development Conference (PDC) in 1997, "Industrial Noise Measurement and Control" at the ASSE PDC in 2000, "Task-Based Risk Assessment and Reduction" at the ASSE PDC in 2001, "Incremental Risk Reduction" at the ASSE PDC in 2002, "How Task-Based Risk Reduction Works for You," at the ORC Safety and Health Conference in Washington, DC, 2002, and "Machine Safety" at the joint UAW-GM-Delphi Safety and Health Conference in 2003.

Credits include recognition as a Certified Safety Professional (CSP) by the Board of Certified Safety Professionals, Certified Manufacturing Engineer (CMfgE) by the Manufacturing Engineering Certification Institute (MECI), and Certified Plant Engineer (CPE) by the American Institute of Plant Engineers (AIPE). He was designated ASSE Engineering Division *Safety Professional of the Year - 1994*, *Diplomate - Board Certified Forensic Examiner* by the ACFE in 1996, *Safety Professional of the Year* by the Central New York Chapter of ASSE in 2000, and a *Fellow of the American College of Forensic Examiners* in 2001.

Clients include IBM, GM, Eastman Kodak, Xerox, General Electric, Allied, Lockheed-Martin, Corning, International Wire, Cooper Industries, United Technologies, ITT, Andersen, Revlon, RIT, Syracuse University, NUMMI, Universal Instruments, Liberty Mutual, A. Duie Pyle Trucking, Armstrong World Industries, Church & Dwight, Genmar, Time-Warner, State Fund Insurance, State of New York, Broward

Co., FL, Sun Oil, OSHA, MSHA and numerous other industrial clients, engineering and law firms.[Res1006]

## **PUBLISHED ARTICLES SAFETY-RELATED**

“Setting Safeguarding Priorities Using Task-Based Risk Assessment,” *The Compass*. (Newsletter of the Management Practice Specialty of ASSE.) Fall 2006. American Society of Safety Engineers.

“It’s All About Risk!” A series of articles for CIH/CSP/CHSM continuing education program credits. *Compliance* magazine, Jan-April, 2006. Douglas Publications.

“The Elements of Risk,” a series of articles. ASSE Central New York Chapter *Newsletter*, December 2004-March 2005.

“Risk Assessment in Construction Planning,” ASSE Professional Development Conference Proceedings, June 2004 and June 2005. American Society of Safety Engineers.

“Machine Safeguarding: What to Use and When,” ASSE Professional Development Conference Proceedings, June 2003. American Society of Safety Engineers.

“Incremental Risk Reduction,” ASSE Professional Development Conference Proceedings, June 2002. American Society of Safety Engineers.

“Risk Assessment and Reduction,” *Professional Safety – Journal of ASSE*, January 2002. American Society of Safety Engineers.

“Machine Guarding – ANSI Provides a Useful Tool for 1910.212 Compliance,” *Federal Regs Commentary*, Compliance Magazine, July/August 2001.

“Machine Safety - Task-Based Risk Assessment and Reduction,” ASSE Professional Development Conference Proceedings, June 2001. American Society of Safety Engineers.

“Principles of Risk Assessment and Machine Safeguarding,” *Safety Engineering*, 3<sup>rd</sup> Edition, Chapters 16 and 17. Richard Boehm, editor. American Society of Safety Engineers, Des Plaines, IL, 2000.

“Safety in Design,” *Safety & Health Management Planning* - Chapter 12. James Kohn, editor. Government Institutes Press, Rockville MD, 1999

NIOSH Machine Safety Research Project – The Paradigm Shift: Risk Assessment and TR3,” *1998 B11 Annual Meeting Proceedings*, AMT, September 1998.

“European Safety Standards - The CE Mark May Not Mean What You Think,” *Ask the Experts*, Compliance Magazine, September 1998

“Mechanical Power Presses – The OSHA National Emphasis Program,” *Federal Regs Commentary*, Compliance Magazine, July/Aug 1998

“Buyer Beware – European Machines May Be Unsafe!” ASSE Engineering Division News, Spring 1998

“The OSHA Paradigm Shift,” ASSECNY Newsletter, February 1998

“OSHA’s Power Press Emphasis Program,” ASSECNY Newsletter, January 1998.

“Machine Accident Forensic Case Report – A Power Press Amputation Investigation,” *On-Line Journal* of the American College of Forensic Examiners, January 1998

“Why Are We in This Business?” ASSE Engineering Division News, Winter 1997

“Mechanical Power Presses,” *Federal Regs Commentary*, Compliance Magazine, June 1997

“Segue to Safety,” ASSECNY Newsletter, June 1997.

“Machine Safety – A Global Approach,” ASSE Professional Development Conference Proceedings, June 1997, American Society of Safety Engineers

“The Times, they are a-changing - The Future of Safety Engineering”, ASSE Engineering Division News, Summer 1996

“Safety Interlock Switches,” ASSE Engineering Division News, Winter 1995

“Press Brake Safeguarding,” ASSE Engineering Division News, Fall 1995

“OSHA Compliance for Purchased Machinery?” *Ask the Experts*, Compliance Magazine, July/August 1995

“Inconsistency in OSHA 1910.219 Enforcement,” *Ask the Experts*, Compliance Magazine, April 1995

“Machine Safeguarding: An Overview,” ASSE Safety Technology 2000 Proceedings, June 1995, American Society of Safety Engineers, 1800 Oakton, Des Plains, IL.

“OSHA 1910.212 Compliance,” *Ask the Experts*, Compliance Magazine, March 1995

“Why Safety Interlocks?” ASSE Engineering Division News, Fall 1994

“Full Revolution Press Controls and Safeguarding,” ASSE Engineering Division News, Late Winter 1994; Reprinted in the Society of Manufacturing Engineers (SME) Chapter 19 Newsletter, May and June 1994.

“Control-Reliable Emergency Stop Circuits,” ASSE Engineering Division News, Spring 1994.

“Safety is Everyone’s Responsibility,” ASSE Engineering Division News, Spring 1994; Reprinted in the Safety Council of Central New York Newsletter, May 1994.

“Part Revolution Press Control and Safeguarding Requirements,” ASSE Engineering Division News, Winter 1993; SME Chapter 19 Newsletter, June and August 1993.

“Emergency Stop Controls,” Society of Manufacturing Engineers, Chapter 19 Newsletter, April 1993

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## **PUBLISHED ARTICLES NOISE-RELATED**

“How to Address Community Noise Issues,” *Facilities Safety Management Magazine*. March 2005.

“Getting Rid of Noise,” *Eventweb Newsletter – Volume 5, Issue 19*, Eventweb® Internet News & Analysis for the Meeting Industry, May 31, 2002.

Industrial and Community Noise Measurement and Engineering Controls,” *Proceedings of the Annual Professional Development Conference*, American Society of Safety Engineers, June 27, 2000.

“Noise Exposure – The MSHA Rule Changes,” *Federal Regs Commentary*, Compliance Magazine, April 1997.

“OSHA Noise Exposure,” *Ask the Experts*, Compliance Magazine, July/August 1995.

“The Basics of Noise Control,” SME Newsletter, Society of Manufacturing Engineers, Syracuse Chapter 19, August and October 1994.

“Biggest and Brightest – A Guide to Natatorium Lighting and Acoustics,” *Aquatics International magazine*, May/June 1993.

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## **PRESENTATIONS**

### **MACHINE AND FACILITY SAFETY-RELATED**

“Safety Signage: Effectively Communicating Risk,” Southwest Florida section of the Suncoast Chapter of ASSE, Bonita Springs, FL., April 20, 2006. (18 attendees)

“Risk Assessment in Construction Planning,” ASSE Professional Development Conference, New Orleans, LA., June 14, 2005. A ninety-minute presentation for 120 attendees (est.).

“Risk Assessment in Construction Planning,” Suncoast Chapter of ASSE, Bonita Springs, FL., January 20, 2005. (20 attendees)

“Machine Safeguarding: What to Use and When,” ASSE Professional Development Conference, Denver, CO., June 25, 2003. A ninety-minute presentation (120-130 attendees).

“Machine Safety,” UAW-GM-Delphi 2003 Health and Safety Conference, January 8-24, 2003, Palm Springs, CA. A recurring ninety-minute presentation covering task-based risk analysis and reduction, and power press safety requirements (100-120 attendees).

“The Ramifications of Task-Based Risk Assessment and Reduction,” Organization Resources Counselors Conference, August 8, 2002, Washington, DC. A one-hour presentation on the history and ramifications of the ANSI B11.TR3 landmark document (150 attendees).

“Incremental Risk Reduction,” ASSE Professional Development Conference, June 10, 2002, Nashville, TN. A 30-minute presentation portion of the Engineering Forum with panel discussion (90 attendees).

“Machine Safeguards – What Works For You?” ASSE Central New York Chapter PDC and Exposition, April 24, 2002, Syracuse, NY. A 1-hour presentation (40 attendees).

“Machine Safety – Task-Based Risk Assessment and Reduction,” ASSE Professional Development Conference, June 12, 2001, Anaheim, CA. A 1-1/2 hour presentation with Michael Taubitz, General Motors Global Safety Liaison, on the background and elements of ANSI B11.TR3 (130 attendees)

“Task-Based Risk Assessment and Reduction,” “Hazard and Risk Assessment: How the Methodology Works for Your Machines,” July 12, 2000, Bristol, VA. Strongwell Corporation (14 attendees).

“Hazard and Risk Assessment for Machinery,” April 25, 2000, Syracuse, NY. “Empire State Safety – 2000 (58 attendees).

“Safety Signage and ANSI Z535,” March 23, 2000, Liverpool, NY. Meeting presentation for the Central New York Chapter of the American Society of Safety Engineers (17 attendees).

“Press Brake Safety: An Update on ANSI B11.3 and OSHA Requirements,” February 22, 2000, Cortland, NY. Pall Trinity Corporation (67 attendees).

“Power Presses: Information for Safety Professionals,” February 7, 2000, Troy, NY. Meeting presentation for the Eastern New York Chapter of the American Society of Safety Engineers (18 attendees).

“Power Press Operator Training,” November 30, 1999. Power Point presentation donated to the UVM SIRI site for public use. (<http://siri.uvm.edu/ftp/ppt/powerpres/index.htm>)

“Safeguarding Metal and Woodworking Machines,” November 10, 1999, Rochester, NY. Conference training session for the NYS AESHP (BOCES) representatives (33 attendees)

“Power Press Safety – An Overview,” April 21, 1999, Verona, NY. Concurrent session for Empire State Safety '99 (30 attendees)

“Risk Assessment and Press Brake Safety,” April 21, 1999, Verona, NY. Concurrent session for Empire State Safety '99 (25 attendees)

“Lockout/Tagout/Tryout – A Panel Discussion,” April 21, 1999, Verona, NY. One of three panelists from industry, OSHA and the insurance sector (60 attendees)

“Machine Safety – A Online Chat,” November 16, 1998, WorldSafety.Com. A 1-1/2 hour online question and answer session (20 attendees)

“B11 TR3 Update – Risk Assessment and Reduction,” July 23, 1998, Cincinnati, OH. Presentation for the B11 community at the 1998 Annual Meeting (80 attendees)

“Successful and Effective Expert Witnesses in Safety and Health,” June 13-14, 1998, Seattle, WA. Faculty member for pre-conference seminar at ASSE Professional Development Conference (170 attendees)

“You Have Been Cited – Now What?” May 19, 1998, Syracuse, NY. Participant and moderator for a panel discussion and mock conferences at Empire State Safety '98 (30 attendees)

“OSHA CrossFire,” May 18, 1998, Syracuse, NY. Moderator for a panel discussion that included an attorney, union representative, compensation board representative and an OSHA supervisor, at Empire State Safety '98. (40 attendees)

“Machine Guarding and Power Presses,” March 2, 1998, Rochester, NY. A dinner meeting presentation for the Genesee Valley Chapter of ASSE (27 attendees)

“Power Press Safety,” November 4, 1997. Syracuse, NY. A two-hour morning program for the Safety Council of Central New York (15 attendees)

“Risk-Based Machine Guarding,” October 7, 1997, VA Medical Center, Albany, NY. A morning seminar for the Northeastern New York Federal Safety and Health Council (40 attendees)

“ANSI B11 TR3 Hazard Identification and Control,” July 16, 1997, Davenport, IA. A half-hour presentation for the ANSI B11 Annual Meeting. (90 attendees)

“Machine Safety – A Global Approach,” ASSE Professional Development Conference, June 17, 1997, New Orleans, LA. A 1-1/2 hour presentation on Hazard Identification and Risk Analysis. (124 attendees)

“Power Press Safety and the Law,” May 29, 1997, SUNY Institute of Technology, Marcy, NY. A breakfast seminar for the ILEC/MVATC (30 attendees)

“General Machine Safeguarding,” May 6, 1997, Sharonville (Cincinnati), OH. Conference on Machine Safeguarding sponsored by OSHA and General Electric Aircraft Engines (80-90 attendees)

“ANSI B11 TR3 – A New Paradigm,” April 10, 1997, Syracuse, NY. A session for the ASSE Central New York “Empire State Safety ‘97” Symposium (150 attendees)

“Safety and the Internet,” September 13, 1996, Lancaster, PA. A track presentation for the Central Pennsylvania Chapter of ASSE Professional Development Conference (25 attendees); January 16, 1997, Syracuse, NY. A meeting program for the Central New York Chapter of ASSE. (30 attendees)

“Risk-Based Machine Guarding,” April 20, 1996, Oneida, NY. A meeting program for the Central New York Chapter of ASSE. (24 attendees)

“Hazard Assessment and Risk Analysis in Machine Guarding,” December 4, 1995, Rochester, NY. A meeting program for the Genesee Valley Chapter of ASSE. (25 attendees)

“Machine Safeguarding: An Overview,” ASSE *Safety Technology 2000 Symposium*, June 19, 1995, Orlando, FL. A 1-1/2 hour presentation with additional poster-board display. (80-100 attendees)

“Machine Safety Compliance in the Wood Processing Industry,” October 27, 1994, Syracuse, NY. A 2-hour program for the Technical Association of the Pulp and Paper Industry (TAPPI) (60 attendees)

“Safeguarding Metal and Woodworking Shops,” May 1994, Watertown, NY. A three-hour presentation for the BOCES Health and Safety Regional Network Meeting. (30 attendees)

“Guarding Machines and Facilities,” April 14, 1994, Syracuse, NY. A three-hour training class for statewide CSP candidates. (12 attendees)

“Risk Assessment and UK Standard BS5304,” June 25, 1993, Dallas, TX. Co-presenter for the ASSE Engineering Division Seminar. (30 attendees)

“Machine Safeguarding,” September 24, 1991, Rochester, NY. A six-hour seminar in cooperation with Roger Harrison of Rockford Systems. (45 attendees)

“Machine Guarding Overview,” June 20, 1989, Syracuse, NY. A two-hour training seminar for CNA Insurance Company (15 attendees)

## **NOISE-RELATED PRESENTATIONS**

“Community Noise – A Health Issue,” ASSE Southwest Florida Professional Development Conference, October 27, 2006, Fort Myers, FL. One-hour session. (16 attendees)

“Noise Exposure and Engineering Controls,” Western New York Chapter of the American Industrial Hygiene Association (AIHA), September 13, 2006, Batavia, NY. Two-hour session. (18 attendees)

“Community Noise Measurement per ASTM E1014-84 (2000)” Training session for law and code enforcement officers. September 23, 2003. Ft. Lauderdale, FL. Five-hour session with workshop (28 attendees)

“Industrial and Community Noise Control,” Society of American Military Engineers (SAME), November 7, 2002, Fort Drum, NY. One-hour session. (30 attendees)

“Industrial and Community Noise Reduction Techniques,” CS Engineering, Inc., May 23, 2002, North Syracuse, NY. One-hour session. (32 attendees)

“Noise Basics and Noise Reduction,” Rochester Chapter of the Vibration Institute, November 12, 2001, Canandaigua, NY. Two-hour session. (20 attendees)

“Noise Regulations and the NIOSH Initiative,” AIHA Central New York Chapter Meeting, November 2, 2000, East Syracuse, NY. One-hour session. (13 attendees)

“Industrial and Community Noise Measurement and Control,” NYS Department of Environmental Conservation Law Enforcement Training Session, October 25, 2000, NYDEC Law Enforcement Training Center, Oswego State University, Oswego, NY. Three-hour session. (38 attendees)

“The New MSHA Noise Regulations and the NIOSH Initiative,” ASSE Central New York Chapter Meeting, September 21, 2000, Liverpool, NY. One-hour session. (17 attendees)

“Industrial and Community Noise Measurement and Control,” “Safety2K” Professional Development Conference of the American Society of Safety Engineers (ASSE), June 27, 2000, Orlando, FL. Ninety-five minute session. (70 attendees)

“Basics of Noise Control,” NYS AESHP (BOCES Safety) Conference, November 10, 1999, Pittsford, NY. One-hour session. (30 attendees)

“Noise Measurement and Control,” Environmental Hearing and Vision Associates, American Association of Occupational Health Nurses Workshop, September 24, 1998, Syracuse, NY. Two-hour session. (24 attendees)

“Basics of Noise Measurement and Control,” OSHEX *Noise '98*, June 9-10, 1998, Rochester and Syracuse, NY. Six-hour session. (33 attendees)

“Noise Measurement and Control for Industrial Hygienists,” NYSDOL Industrial Hygiene Group, March 21, 1998, Syracuse, NY. One-hour session. (11 attendees)

“Source Noise Control Techniques and Materials,” ASSE Region XI Professional Development Conference, October 1996, Saratoga Springs, NY. One-hour session. (20 attendees)

“The OSHA Noise Standard and Hearing Conservation Amendment,” ASSE/AIHA Joint Chapter Meeting, November 20, 1995, Jamesville NY. One-hour presentation. (40 attendees)

“Community Noise Measurement,” Training session for law and code enforcement officers hosted by the City of New Paltz Police Department, October 6, 1995, New Paltz, NY. Two-hour session. (30 attendees from downstate locations)

“Industrial Noise Measurement & Abatement Techniques,” Rochester Industry and Technology Exposition, April 26, 1995, Rochester, NY. One-hour session. (17 attendees)

“Noise Control in Sawmills,” Great Lakes Sawyers Conference, September 18, 1993, Tunghannock, PA. Two-hour session. (35 attendees)

“Community Noise Measurement,” Training session for law and code enforcement officers hosted by the Town of Newcastle Police Department, November 24, 1992, Pleasantville, NY. Two-hour session. (18 attendees)

“Watercraft Noise Measurement Seminar and Workshop,” New York State Dept. of Parks and Recreation and New York State Police, August 1987, Lake Luzerne, NY. Four-hour training session for law enforcement officers with field demonstrations and trials. (75 attendees)

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