

Exponent®
Engineering & Scientific Consulting

Eugenia Kennedy, CSP

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Professional Profile

Ms. Kennedy's expertise is in the discipline of mechanical engineering, including the fields of mechanical design and the mechanical behavior of materials. She has attained specialized competence in industrial and occupational safety including matters such as machine guarding, fall protection, hazardous energy control, aerial lifts, scaffolding, material handling, walking/working surfaces, and slip-and-fall matters.

Ms. Kennedy has experience in evaluating worker, equipment, and facility safety. She has investigated incidents associated with construction equipment such as excavators and cranes. She has also assisted clients in developing machine guarding, performing safety audits, and identifying risks associated with occupational activities.

Throughout her career, Ms. Kennedy has used her expertise in mechanical engineering to solve a broad range of problems related to failure analysis and prevention, vehicle accident investigation and reconstruction, and product design and development. She has performed failure and accident investigations of many different components and equipment including: elevators, escalators, consumer products, amusement park rides, and power plant components such as reactor vessels, steam generators, boilers, and turbines. Ms. Kennedy's work has included the area of mechanical behavior of materials. Her expertise also covers fracture mechanics analysis, statistical modeling of material data, and remaining life assessments.

Ms. Kennedy is a Certified Safety Professional. She has received the Safety and Health Specialist Certificates in Construction Industry and General Industry from the OSHA Training Institute Education Center and is authorized to teach the 10- and 30-hour Outreach Courses in OSHA's Construction Safety and Health Standards. She was also the President of the Boston Chapter of the American Society of Safety Engineers. She currently teaches courses on Lead Safety and Energy to Massachusetts Association of General Contractors for the Construction Supervisor's License.

Prior to joining Exponent, Ms. Kennedy worked for the Westinghouse Electric Corporation as an Engineer in the Plant Engineering Division.

Academic Credentials & Professional Honors

M.S., Mechanical Engineering, University of Pittsburgh, 1985

B.S., Mechanical Engineering, University of Michigan, 1981

Licenses and Certifications

8-Hour HAZWOPER Annual Refresher

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Certified Safety Professional (CSP)

OSHA #500 Trainer Course In Occupational Safety & Health Standards For Construction

OSHA #502 Update for Construction Industry Outreach Trainers

OSHA #510 Occupational Safety And Health Standards For The Construction Industry

OSHA #511 Occupational Safety and Health Standards for General Industry

Professional Affiliations

American Society of Safety Engineers

American Society of Mechanical Engineers

American Society for Testing and Materials, ASTM Committee E34 Occupational Health and Safety

- E34.30 Occupational Health and Safety in Construction
- E34.91 Long Range Planning
- E34.92 Technical Committee Operation
- F 13 Pedestrian/Walkway Safety and Footwear
- F13.50 Walkway Surfaces

Peer reviewer for ASME 2014 International Mechanical Engineering Congress and Exhibition Conference

Publications

Bress TJ, Hubbard W, Kennedy EL, Wodin-Schwartz SJ. What goes up, must come down safely - Elevators and their risks. Exponent Webinar, May 2014.

Kennedy EL, Bress TJ. Getting to the root of root cause analysis. Lorman Education Services, August 2013.

Kennedy EL, Fowler AK, McCoy C. Port of calm: Issues in risk and claim management for the port industry. Claims and Litigation Management Alliance, June 2013.

Kennedy EL, Ellison A. Carbon monoxide dangers and detection. American Society of Safety Engineers Greater Boston Chapter, December 2012.

Kennedy EL. Designing for safety—Application to construction and general industry. Lorman Education Services, October 2008.

Kennedy EL. Designing for safety in the workplace. Legal Issues for Massachusetts Professional Engineers, May 2008.

Kennedy EL. Root cause failure analysis and accident reconstruction. Lorman Educational Services, November 2007.

Kennedy EL. Slips and falls. Recent developments in civil litigation. Massachusetts Defense Lawyers Association, May 2007.

Kennedy EL. Fall protection. Northeast Buildings & Facilities Management Show & Conference, April 2007.

Kennedy EL. Workplace accident investigation. Legal Issues for Massachusetts Professional Engineers, April 2006.

Kennedy EL. Wild Wonder amusement ride accident investigation. Extreme Evidence, Court TV, January 2005.

Kennedy EL. Accidents resulting from in-house repairs. American Society of Safety Engineers, New England Professional Development Conference, November 2004.

Kennedy EL. Accident investigations and analysis. Invited Lecture, AEGIS Claims Roundtable, Jersey City, NJ, January 2001.

Kennedy EL. Accident investigation and personal injury analysis. Invited Lecture, Claims Adjuster Workshop, Liberty Mutual, Weston, MA, December 1, 2000.

Kennedy EL. Accident investigation and personal injury analysis. Invited Lecture, Black & McCue, Worcester, MA, October 8, 1998.

Kennedy EL. Accident investigation and reconstruction. Invited Lecture, New England Region Field Investigator Meeting, Liberty Mutual, Sturbridge, MA, August 16, 1996.

Reports

Menich RP, Kennedy EL. SAVER (Statistical Analysis of Vessel Examination Results)—A Computer Code for Developing a Flaw Distribution from Vessel Inspection Data. Failure Analysis Associates, Inc. Contractor Report to Sandia National Laboratories, SAND94-2454, Albuquerque, NM, January 1997.

Dorshuk, BW, Martson TU, Kennedy EL, Hostetler DR. Calvert Cliffs Nuclear Power Plant life cycle management/license renewal program—Reactor pressure vessel evaluation. Electric Power Research Institute, TR-104509, Palo Alto, CA, April 1995.

Kennedy EL, Doney G, Nickell R. PWR reactor pressure vessel license renewal industry report; Revision 1. Electric Power Research Institute, TR-103837, Palo Alto, CA, July 1994.

Gambel RM, Kennedy EL, Server WL, Connor, L, Venkatakrishnan, CS. Reactor Vessel Embrittlement Management Handbook—A handbook for managing reactor vessel embrittlement and vessel integrity. Electric Power Research Institute, TR-101975, Palo Alto, CA, December 1993.

Foulds JR, Kennedy EL. Midland Reactor Pressure Vessel Flaw Distribution. Failure Analysis Associates, Inc. Contractor Report to Sandia National Laboratories, SAND93-7064, Albuquerque, NM, 1993.

White Paper on reactor vessel integrity requirements for Level A and B Conditions. Electric Power Research Institute, TR-100251, Palo Alto, CA, January 1993.

Kennedy EL, Foulds JR, Rosinski SL. Nuclear reactor pressure vessel flaw distribution development. Phase II—Methodology and Application. Contractor Report, Sandia National Laboratories, SAND91-7073, Albuquerque, NM, 1991.

Kennedy EL, Foulds JR. Nuclear reactor vessel flaw distribution development. Phase I—NDE Capability and Sensitivity Analyses. Contractor Report. Sandia National Laboratories, SAND 89-7148, Albuquerque, NM, May 1990.

Wessel ET, Server WL, Kennedy EL. Primer: Fracture Mechanics in the nuclear industry. Electric Power Research Institute, EPRI NP-5792-5R, Palo Alto, CA, 1990.

Hopkins SW, Kennedy EL. Feedwater pump shaft failure investigation. Failure Analysis Associates Report, January 1987.

Harris DO, Sire RA, Rau SA, Dedhia DD, Nelson EE, Kennedy EL. PERL, A computer code for probabilistic evaluation of rotor lifetime. Failure Analysis Associates Report to Consolidated Edison, November 1986.