SPA L.L.C. BIOGRAPHICAL OUTLINE

STANLEY D. PULZ, CSP, P.E.

Mr. Pulz is a Registered Professional Engineer (safety), Certified Safety Professional, and Master's Level Psychologist specializing in technical aspects of applied human factors engineering and safety. For over 40 years, both as a corporate safety director and private consultant, Mr. Pulz has provided a variety of organizations, including private industry, governmental organizations, and the legal and insurance community with technical assistance on safety and human factors engineering issues. In addition, Mr. Pulz serves as a member of numerous national consensus standard committees including: ASTM Committee No. E-34 on Occupational Health and Safety; ASTM Subcommittee E34.85 on Ergonomics; ANSI A-10 Committee on Safety Requirements for Construction and Demolition; ANSI A-10.2 Subcommittee on Standard for Safety, Health, and Environmental Training; and Past Chairperson and Current Liaison Member ANSI A-10.39 Subcommittee on Safety Audit Procedures. As an Accredited Occupational Safety and Health Instructor through the U.S. Department of Labor (OSHA), Mr. Pulz has taught Accredited OSHA Safety courses through The National Resource Center for OSHA Training under a grant from the U.S. Department of Labor. In addition, Mr. Pulz has been an instructor in human factors and safety at the Community College of Baltimore County, Catonsville, Maryland, and numerous safety topics for the National Safety Council and the Safety Council of Maryland.

Mr. Pulz established SPA, inc. as a Maryland closed corporation in 1981. The objective of SPA, inc. is to provide research analysis and consultative services in the areas of Safety, Human Factors Engineering, and Risk Management to private industry, insurance and legal communities, government, and trade organizations. These services have included, but are not limited to analysis of facilities, products, operations, and equipment; programs to detect programmatic, physical or environmental hazards/failures, coupled with recommendations of needed solutions/methods to mitigate or eliminate hazardous and/or high risk conditions and/or lower insurance and worker compensation costs; and seminar development and production.

Examples of SPA, inc.'s joint venture and teaming projects include: conducted OSHA Standards surveys/inspections at National Aeronautics and Space Administration (NASA) Field Installations; researched and developed injury and illness prevention program for Texaco Exploration and Production, Inc., California Operations; and safety management seminars with mid and upper level management for the Health Care Facilities Administration (HCFA). SPA, inc. has also developed corporate safety and health programs and provided safety training nationally to Maersk Container Service Company, Inc. and member companies of the Washington D.C. Chapter of the National Electrical Contractors Association. In addition, SPA, inc.'s technical consultations have been utilized by the insurance and legal communities for expert testimony, pretrial, and trial preparation in cases involving construction safety, product safety analysis, hazard analysis, hazard warning analysis, failure analysis, and human factors engineering analysis with respect to private, product, commercial, and industrial accident reconstruction.

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Stanley Pulz Associates, LLC (SPA, LLC) was established in September 2019, and will continue SPA, inc.'s mission into the future.

EDUCATION

Concord University, Athens, West Virginia

B.A., Psychology, 1973

Johns Hopkins University, Baltimore, Maryland

Graduate Studies, Psychology, 1975

Radford University Graduate School, Radford, Virginia

M.A., Psychology, 1976 (emphasis in Human Factors)

The Community College of Baltimore County, Catonsville, Maryland

Certificate, Occupational Safety and Health Technology, 1988

EXPERIENCE

2019 - Present

SPA, LLC, Baltimore

OWNER AND PRINCIPAL CONSULTANT

1979 - Present

SPA, inc., Baltimore, MD

PRESIDENT AND PRINCIPAL CONSULTANT

Responsible for general management duties associated with private consulting practice. Provided consulting services to employers, employer associations, government agencies, and the insurance and legal communities on safety, health, human factors engineering and risk management issues. These services include but are not limited to:

- technical aspects of Federal, state, industrial, consensus, commercial, product, and trade safety and health regulations/standards
- general and industry specific safety and health audits
- safety and health program development, evaluation, and administration
- hazard recognition, analysis, and control
- forensic engineering and failure analysis
- training seminar development and production

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1978 – 1978 Logistics Management Engineering, Inc., Annapolis, MD SAFETY/HUMAN FACTORS ENGINEER

• Development of marketing program for consulting services in safety and human factors engineering

1975-1979 Corporate Safety Director, John T. Clark and Son of Maryland, Inc., Baltimore, MD

CORPORATE SAFETY DIRECTOR

- Developed and implemented safety program, investigated accidents associated with the materials handling and maritime industry, record keeping, medical programs, training, insurance materials, correspondence with federal and state regulatory agencies, research and development of operations safety
- Corporate safety program chosen by the National Maritime Safety Association as reference for their national safety program published in 1978. Trained executive personnel from national trade association in effective safety programming
- Created accident reporting system, established effective communication between management personnel and insurance carriers. Resulted in achievement awards for safety efficiency from local trade association in 1976, 1977, and 1978

CREDENTIALS

- Registered Professional Engineer, Safety Engineering, Massachusetts
- Certified Safety Professional
- Certified Hazard Control Manager
- Certified Product Safety Manager
- Certified Occupational Health and Safety Technician
- WSO Certified Safety Executive, World Safety Organization
- WSO Certified Safety, Health, & Environmental Ergonomist
- Completed EM385-1-1 U.S. Army Corps of Engineers Course
- Approved Occupational Safety and Health Instructor, O.S.H.A., U.S. Department of Labor

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PROFESSIONAL AFFILIATIONS

- American Society of Safety Professionals
- American Psychological Association
- Human Factors and Ergonomics Society
- National Society of Professional Engineers
- Maryland Society of Professional Engineers
- World Safety Organization
- Systems Safety Society
- Member, ANSI A10 Committee on Safety Requirements for Construction and Demolition
- Past Chairperson and Current Liaison Member, ANSI A10.39 Construction Safety and Health Audit Programs
- Member, ANSI A10.1 Planning for Construction Safety and Health
- Member, ANSI A10.2 Standard for Safety, Health, and Environmental Training
- Member, A10.23 Safety Requirements for the Installation of Drilled Shafts
- Member, ANSI A10.34 Confined Spaces in Construction
- Member, ANSI A10.40 Reduction of Musculoskeletal Problems in Construction
- Member, ANSI A10.42 Safety Requirements for Rigging Qualifications and Responsibilities
- Member, ASTM Committee No. E.34 Committee on Occupational Health & Safety
- Member, ASTM E34.85 Ergonomics
- Member, ASTM E34.30 Occupational Health and Safety in Construction

SELECTED PUBLICATIONS

S.D. Pulz: "Research on Modern Psychology as Applied to Longshore Safety," *National Safety Council*, 1978.

S.D. Pulz: "Accident Analysis for Prevention: The Role of the Human Factors Specialist in Accident Reconstruction," *Professional Safety*, February, 1987.

ADDENDUM

Stanley D. Pulz, CSP, P.E. Maritime and Materials Handling Experience

Additional Training

Completed OSHA course #5400, Trainer Course in OSHA Standards for the Maritime Industry covers Maritime Standards and current industry information at the University of South Florida, OSHA Training Institute (OTI) Education Center.

Forensic Experience

• Investigated numerous accident events occurring at transportation terminals, construction sites, in transit, in port, and at sea. [Deposition and trial testimony on this subject matter].

John T. Clark & Son of Maryland, Inc., Baltimore, Maryland CORPORATE SAFETY DIRECTOR

- Developed and implemented safety program, investigated accidents associated with the
 materials handling and maritime industry, record keeping, medical programs, training, insurance
 materials, correspondence with federal and state regulatory agencies, research and development
 of operations safety.
- Corporate safety program chosen by the National Maritime Safety Association as reference for their national safety program published in 1978. Trained executive personnel from national trade association in effective safety programming.
- Created accident reporting system, established effective communication between management personnel and insurance carriers. Resulted in achievement awards for safety efficiency from local trade association in 1976, 1977, and 1978.

Maersk Container Service Company

SAFETY CONSULTANT (SPA, inc.)

- Research and Development of the Corporate Safety/Risk Management Program for Maersk Container Service Company, Inc. (Transportation/Warehousing).
- Revisions and additions to Corporate Safety Program.
- Conducted Risk Management Seminar(s) for Maersk Container Service Company, Inc.
- Conducted safety training for management and union supervisors and foremen.

Longshoreman - ILA Local #333, Port of Baltimore (Retired*)

GENERAL LONGSHOREMAN, GEARMAN (RIGGER)

Years of hands-on experience involving the loading and unloading of materials to and from ships, railroad cars, containers, and trucks. Methods of materials handling included manual materils handling and operation of various sized fork lift trucks, yard tractors, cherry picker, and cranes. Part of this work included several years of experience as a gearman. Within this industry, the Gearman is responsible for rigging equipment and rigging practices used in all material handling processes.