

Joseph M. Evans, Ph.D.

Sense Technology Inc.
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Export PA 15632
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After receiving his Ph.D. from Carnegie Mellon University, Dr. Evans joined the staff of the Westinghouse Research Laboratories as senior research engineer. He served as principal investigator of NIH Contract PH 43-67-1139, with the objective of producing a clinical intra-aortic balloon heart assist. He successfully produced forty assist devices and guided the program through the clinical evaluation stage.

In 1969, Dr. Evans was selected to head the Biosciences and Medical Systems Department of the Westinghouse Research Laboratories. This department had responsibility for the development of medical devices in the support of the Medical Systems Division and X-ray Division as well as more general problems of corporate interest in the biological sciences. Under his direction, this multidiscipline group produced a number of major developments in the field of patient monitoring and analytical instrumentation. Among these developments were advanced concepts in arrhythmia monitoring, a continuous invivo blood gas monitor, a computerized intensive care system, an advanced video display system, and an ultrasonic imaging system.

In 1971, Dr. Evans headed a group at the research laboratory in support of the planning and consulting activities of the Health Systems Division. This activity led to the development of a systems analysis approach to health care delivery and resulted in the definition of methods for optimizing clinical laboratory testing processes, a method for accurately estimating the type and frequency of ambulatory patient visits to a clinic based on population served, and a method for the rational design of multiphasic testing facilities.

Dr. Evans' interests in the innovation process prompted him to organize a group at the research laboratories in 1972 to study the process of new product development. This activity grew to include the development of methods for evaluating research productivity and management policy. These methods were applied to corporate problems such as the selection and training of division managers, research communications and marketing, research organization and salary administration.

In 1975, Dr. Evans left Westinghouse to establish Evaluation Technology. The objective of this organization was to assist organizations in the improvement of management policy and practice through the use of quantitative techniques. Evaluation Technology conducted studies and provided consulting services for a variety of industrial and governmental clients. These included Westinghouse, General Electric, Pittsburgh Corning, Gulf, the City of Philadelphia and the National Science Foundation. Activities included the development of marketing programs for K. W. Battery (a Westinghouse subsidiary) and the Westinghouse Industrial Materials Division; the design and evaluation of a transit security system for the City of Philadelphia; assessment of a

sales incentive plan for Pittsburgh Corning; development of evaluation procedures for general management training for Westinghouse Corporate Headquarters.

In 1979, Dr. Evans founded Silicon Technology, Inc. to market the sealing technology that he had developed in the prior two years. Dr. Evans served as Chief Executive and Chairman of Silicon Technology, Inc. Silicon Technology provided environmental control equipment and materials directly to the steel industry and through United Refractories (a licensee) in the United States and through Silicon Technology in Canada, Silicon Technology Ltd. in Great Britain, and Stog GMBH in Western Europe.

In 1986, Dr. Evans founded Kinetic Technology, Inc. to develop and market an improved chiropractic adjustor.

In 1989, Dr. Evans founded Sense Technology, Inc. to market improved conveyor monitoring systems to the mining and power generation industries. That company evolved into the development and manufacture of a computerized imaging instrument for chiropractors, osteopaths and physiatrists. Dr. Evans currently serves as chief executive and chairman of Sense Technology, Inc.

Dr. Evans was elected to the Franklin Regional School Board of Directors in 1987. He is currently an ad hoc steering committee member of the Western Pennsylvania Regulatory Affairs Network, established in 1998 to enable local companies to accelerate the introduction or enhancement of sound, responsive regulatory approval and compliance practices into their product development and manufacturing processes.

Education:

B.Sc., Civil Engineering, The Citadel, 1960

Elected Member, Engineering Honorary Society, Tau Beta Pi

M.S., Civil Engineering, Carnegie Institute of Technology

Ph.D., Civil Engineering-Biotechnology, Carnegie Mellon University, 1967

Military Experience:

1964-65 - 5th Engineer Battalion, Ft. Leonard Wood, Missouri

1965-66 - 87th Engineer Battalion, Cam Rahn Bay, Vietnam

Awards and Decorations--Vietnamese Service Medal,
Vietnamese Campaign Medal, National Defense Medal,
Army Commendation Medal, Promoted to the rank of Captain in Vietnam.

Experience:

1967-68 Instructor, Carnegie Mellon University
Bioengineer, VA Hospital, Pittsburgh, PA

1968-69 Senior Engineer, Westinghouse Research Laboratories

1969-72 Manager, Biosciences and Medical Systems,
Westinghouse Research Laboratories

1972-75 Manager, Sociologic Systems,
Westinghouse Research Laboratories

1975-79 President, Evaluation Technology

1976-77 Instructor (Probability and Statistics)
Duquesne University, Pittsburgh PA

1979-82 President, Silicon Technology Inc.

1982-2001 Chairman of the Board and Chief Executive Officer,
Silicon Technology Inc.

1987-2003 President, Kinetic Technology Inc.

1989-2003 President, Sense Technology Inc.

2004 CEO and Chairman, Sense Technology Inc.

Patents:

U.S. Patent 4,307,722
Dilators for Arterial Dilation
Issued December 29, 1981

U.S. Patent 4,425,191
Method and Apparatus for Sealing a Heated Chamber
Issued January 10, 1984

U.S. Patent 4,844,105
Automated Cleaning and Sealing System
Issued July 4, 1989

U.S. Patent 4,841,955
Chiropractic Device
Issued June 27, 1989

U.S. Patent 4,989,127
Control System for Precision Spinal Adjustment
Issued January 8, 1991

U.S. Patent 5,435,813
Wet Bulk Density Control of Fine Aggregates
Issued July 25, 1995

U.S. Patent 5,662,122
 Method and Apparatus for Objectively Assessing and Correcting the Relative
 Compliance of Vertebral Segments
 Issued September 2, 1997

Recent Publications/Presentations:

Differential Compliance Measured by the Function Recording and Analysis System in the
 Assessment of Vertebral Subluxation, *Journal of Vertebral Subluxation Research*, 2(1),
 January 1998: 15-21

The Clinical Application of Differential Compliance Methodology to Joint Fixation Identification
 and Resolution Using the PulStarFRAS, *Journal of Vertebral Subluxation Research*, 2(3),
 November 1998: 131-136

Similarities and Differences Between X-ray Analysis and Computerized Fixation Imaging of the
 Cervical Spine presented at the Seventh Annual National Subluxation Conference
 Sponsored by Sherman College of Straight Chiropractic Spartanburg SC, October 1999

The Minimum Energy Hypothesis: A Unified Model of Fixation Resolution, with Leach and
 Collins, *Journal of Manipulative and Physiologic Therapeutics*, 2001 (25)2, p105-110

Estimating the Efficiency and Effectiveness of Techniques of Musculoskeletal Therapy, Accepted
 for publication in *The Journal of Manipulative and Physiologic Therapeutics*, 2003

Introduction to the use of Survival Analysis for the Evaluation of Musculoskeletal Therapy,
 Accepted for publication in *The Journal of Manipulative and Physiologic Therapeutics*,
 2003

Pilot Study of the Effectiveness of Multiple Impulse Therapy for Musculoskeletal Complaints,
 with Collins and Grundy, accepted for publication in *The Journal of Manipulative and
 Physiologic Therapeutics*, 2003, presented at the 7th Biennial Congress of the World
 Federation of Chiropractic, Orlando FL, May, 2003

The Efficiency of Multiple Impulse Therapy for Musculoskeletal Complaints, with Collins and
 Grundy, in review by *The Journal of Manipulative and Physiologic Therapeutics*, 2003,
 accepted as poster presentation at the ACC-RAC Conference in Las Vegas CA, Mar, 2004

The Effect of Frequency of Treatment on Patient Response to Multiple Impulse Therapy for
 Musculoskeletal Complaints, with Collins, Leach and Grundy, manuscript undergoing
 review prior to submission to journal.