



## R. Todd Swinderman, PE

**Consulting:** Swinderman teaches courses, customized to the customer's needs, on conveyor design and safety focusing on the advanced concepts in Martin Engineering's FOUNDATIONS™ Book. In addition to providing training, Swinderman consults on reducing the release of fugitive materials from bulk material handling conveyor belts as well as conveyor guarding and other safety concerns in the conveyor industry. Swinderman is available as an expert witness on these topics through Conveyor Equipment Manufacturers Association's (CEMA) Expert Witness program. Swinderman is the editor of the CEMA's 7<sup>th</sup> edition world recognized design guide for conveyors, "Belt Conveyors for Bulk Materials." He also was heavily involved in Martin Engineering's newest book, Foundations™ For Conveyor Safety – The Global Best Practices Resource for Safer Bulk Material Handling.

**Career at Martin Engineering:** During his career at Martin Engineering, which started as a Product Engineer in 1979 and advanced to President and CEO, Todd Swinderman has been instrumental in developing technologies to solve problems in bulk materials handling, and in positioning Martin Engineering as a leading global resource to help industry operate cleaner, safer, and more productive bulk materials handling systems. As an engineer and inventor, Swinderman has conceived and commercialized products that have been accepted in applications across industry and around the world. Swinderman led Martin Engineering through dynamic growth, and oversaw its entry into the international marketplace, with representatives and licensees around the world and overseas business units in Mexico, Europe, Brazil, Indonesia, South Africa, and China.

**Prior Experience:** Maintenance and Project Engineer focusing on plant maintenance, environmental controls and production improvements in asphalt roofing mills, paper mills and for asbestos cement products. Business Manager, responsible for sales design and manufacturing of low temperature insulation systems for piping and vessels. Carpenter and Veterinarian's helper.

**Technology Innovation:** Swinderman has developed a number of proprietary systems that have achieved leading positions in Martin Engineering's product offering, and that have become the industry standard for

design and performance. He has overseen applications in every basic industry that uses belt conveyors and worked on all continents except Antarctica. In recent years his interest has focused on the challenges of wide, high-speed belt conveyors as seen in lignite mining and overland conveying.

**Industry Leadership:** He has played a vital role in the industry trade association Conveyor Equipment Manufacturers Association (CEMA), and served as President of that organization in 2009. Earlier, he served CEMA in many roles as an officer and chair of numerous CEMA standards writing committees, including chair of the Conveyor Components Section, chair of the Strategic Planning Committee, Secretary, Treasurer, and Vice President. He was chair of the committees to re-write CEMA Standard 550: Bulk Materials, and to create CEMA Standard 575: Impact Beds. Swinderman served as chair, editor, and "driving force" behind the Sixth Edition of the "CEMA Belt Book" Belt Conveyors for Bulk Materials. Published in 2005, the sixth edition represented the first update to this industry conveyor design reference in 40 years. Todd is also a member of ASME B20.1 Conveyor Safety Committee.

**Publications and Presentations:** Swinderman has been the principle author of Martin Engineering's FOUNDATIONS™ series of non-commercial books which discuss methods to improve belt conveyor efficiency through the control of fugitive material. He has published over 40 articles and technical papers on problems and solutions in bulk material handling, and made numerous technical presentations on subjects including conveyor design and methods to control fugitive material control at leading industry conferences.

**Patents:** Todd Swinderman holds over 140 active patents in 12 countries related to systems to improve bulk material handling, including conveyor belt cleaners, conveyor sealing systems, conveyor impact systems, and industrial vibration mounting systems and air cannons.

**Education & Personal:** Bachelor of Science, Mechanical Engineering, University of Illinois, 1971; emphasis in Machine Design. Professional Engineer Licenses in Florida and Illinois. Member of National Society of Professional Engineers. Todd resides with his wife, Nancy, in Palm Coast, Florida.

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*"I thought I knew about conveyor belts until I took this class...Very good presentation."*

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