

PHILIP M. SPAMPINATO

Mr. Spampinato is Director, Government Business Development at ILC Dover. He has been at ILC Dover since 1984, when he joined the company as part of the Space Suit team.

Beginning as a Project Engineer, Mr. Spampinato was promoted to Program Manager, managing ILC's Space Suit business. His manned space program oversight included design, development, testing, and production of the NASA's Space Suit Assembly, part of the Extravehicular Mobility Unit, or EMU and design and development of Advanced Space Suit concepts and hardware. Both the EMU and Advanced Suit programs continue to focus on research and development in areas such as suited mobility, comfort, and tactility, and protection from thermal extremes, chemicals, radiation, micrometeoroids, and debris. Included in ILC's research are human factors, robotics, displays, and future technologies for planetary exploration.

He was later promoted to Product Manager, Space Products. To his responsibilities were added unmanned space programs which were characterized by the application of softgood systems to perform functions previously done with hard elements. One of ILC's most visible unmanned space products were the impact bags that successfully landed the Pathfinder, Spirit and Opportunity Rovers on Mars. Other projects included design and development of landing systems, inflatable habitats for planetary exploration, and inflatable decelerators or ballutes for planetary entry, descent and landing. They also include development of inflatable, rigidizable booms and frames for large space-based structures such as antennas and solar arrays.

Prior to joining ILC, Mr. Spampinato was the production engineer for the Welded Tubular Division of LTV Steel. His responsibilities ranged from thermal modeling and implementation of automatic controls for continuous furnaces to redesigned roll pass configurations. This work was conducted as part of an interdisciplinary process enhancement group, LMPT or Labor-Management Participation Team.

Mr. Spampinato is a graduate of the University of Pittsburgh where he received a degree in Mechanical Engineering.

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EDUCATION

BS, Education, Slippery Rock State College, 1970

BS, Mechanical Engineering, University of Pittsburgh, 1982

AFFILIATIONS

Member – ASME Aerospace Executive Advisory Panel

Member - ASME Crew Systems Committee

Past Member - AIAA Life Sciences and Systems Technical Committee

Vice-Chair – SAE-operated *International Conference on Environmental Systems*

PUBLICATIONS

Development of the NASA ZPS Mark III 57.2kN/m² (8.3 psi) Space Suit - SAE Technical Paper Series #881101

Advanced Technology Application in the Production of Spacesuit Gloves - SAE Technical Paper Series #901322

Shuttle Extravehicular Mobility Unit (EMU) Operational Enhancements - SAE Technical Paper Series #901317

Spacesuit Glove Thermal Micrometeoroid Garment Protection Versus Human Factors Design Parameters - SAE Technical Paper Series #911383