Lon E. Bell, Ph. D.

Professional Experience

1999 – Present President, BSST, LLC
(Subsidiary of Amerigon Incorporated)

Formed BSST in 1999 to develop advanced thermoelectric systems.

- Developed and demonstrated high efficiency thermoelectric systems that use alternate thermodynamic cycles.
- Designed and patented advanced thermoelectric cooling/heating system for automotive, electronic enclosure and other applications.
- Negotiated and managed thermoelectric manufacturing and development agreements with a major appliance manufacturer and a major automotive Tier 1 supplier to develop thermoelectric-based products.

1991 – 1998 CEO, Amerigon Incorporated

Founded Amerigon in early 1991 directing the development and design of advanced automotive components and electric vehicle technology.

- Managed the development of six generations of electric vehicles and related technologies developed for worldwide market. The REVA platform has completed design, modeling, fabrication, test and homologation phases and is in production in India
- Developed and patented technology related to Climate Control Seat™ (CCS™), the first solid-state system to deliver active seat warming, cooling and surface drying under all operating conditions.

1967-1991 President, TRW Technar

Founded Technar in 1967, a manufacturer of automotive components, and directed its growth from start-up to $120 million in sales in 1991. Sold majority interest in Technar to TRW in 1986 and the remaining interest in 1991.

- Financial Performance
  - Achievement in 1990 of a 24% return on assets employed while providing $28 million positive cash flow to parent corporation.
- Quality
  - Delivery of approximately 2 million airbag crash sensors to Chrysler in 1990 with zero defective parts. Technar received Chrysler's highest quality award for this endeavor.
  - Received Toyota Award for Technology and Development Excellence, first non-Japanese vendor to win this highest award.

- Business Development
  - Development and production of crash sensor systems for emergency locator beacons for downed aircraft (etc.); captured over 50% of world aircraft market.
  - Automotive crash sensors captured over 50% of the world's car market.

- IP Development.
  - Developed vehicle sensitive seat belt retractors (manufactured in eleven countries by Allied Chemical); fast-start diesel engine controllers; and pressure sensors and vacuum sensors for automotive diesel applications. Each of the products captured over 50% of their respective world markets.
  - Received over 50 U. S. and foreign patents.

Education

1962	California Institute of Technology B. S. Mathematics
1963	California Institute of Technology M. S. Rocket Propulsion
1968	California Institute of Technology Ph. D. Mechanical Engineering

Technical Papers

Published papers related to the thermodynamics of thermoelectric systems; automotive applications for thermoelectric devices, Rolamite technology, and crash sensor devices.

Recent important papers:

- "Increased Thermoelectric System Thermodynamic Efficiency by Use of Convective Heat Transport," Proceedings 21st International Conference on Thermoelectrics, Long Beach, CA, August 2002

- "Use of Thermal Isolation to Improve Thermoelectric System Operating Efficiency," Proceedings 21st International Conference on Thermoelectrics, Long Beach, CA, August 2002

- "Alternate Thermoelectric Thermodynamic Cycles with Improved Power Generation Efficiencies," Proceedings 22nd International Conference on Thermoelectrics, Hérault, France, August 2003