Michael Pecht
Professional Engineer

Ph.D. Engineering Mechanics, December 1982, University of Wisconsin, Madison
M.S. Engineering Mechanics, May 1979
M.S. Electrical Engineering, August 1978
B.S. Acoustics, May 1976

Current Employment

Full Professor and George E. Dieter Chair Professor at the University of Maryland
Founder and Director: CALCE Electronic Products and Systems Center, a $5M a year center sponsored by over 100 international companies and organizations from all sectors of the electronics industry. The Center is now recognized as the driving force behind the development and implementation of physics-of-failure approaches to reliability and life cycle prediction, as well as a world leader in accelerated testing, failure analysis, and electronic parts selection and management.
Chief Editor: Microelectronics Reliability, Elsevier

Honors and Awards

IEEE Fellow, "for effectiveness in leadership in the development and realization of an exemplary program and successful efforts to raise the level of engineering excellence and practice within and without the organization."

ASME Fellow, "for promoting the art, science, and practice of mechanical engineering."

The Royal Society, United Kingdom, Kan Tong Po Electrical Engineering Visiting Professorship Award at City University in Hong Kong (2002).

IEEE Standards Award for chairing and developing IEEE Standard Methodology for Reliability Prediction and Assessment for Electronic Systems and Equipment #1413 (2000).

IEEE Standards Award for chairing and developing IEEE Reliability Program Standard #1332 (2000).

3M Research Award for "research work in the electronics reliability area that has made significant contributions to the scientific understanding of material properties and their complex behavior" (1999).

ASME Electrical and Electronic Packaging Division (EEPD) Award "for outstanding contributions to the field of application of engineering mechanics to electronic packaging" (1999).

IEEE Undergraduate Teaching Award, "for the development and realization of a cross disciplinary educational program in Computer Aided Life Cycle Engineering (CALCE)" (1999).

IMAPS: William D. Ashman Memorial Achievement Award (1997), "for his numerous contributions to academia and the electronics packaging industry."

IEEE Reliability Society's Annual Reliability Award (1996), "for his contributions to the IEEE Transactions on Reliability, his work with CALCE Center and his work on Reliability Standards."

Faculty Achievement Award (April, 1996), "in recognition of outstanding contributions to industrial research enabled by the Technology Initiatives Program."

American Society for Quality Control: Reliability Division, Austin Bonis Award for the Advancement of Reliability Education (1996) for outstanding achievement in the advancement of reliability education.

Institute of Environmental Sciences Reliability Test and Evaluation Award (1996), “for vital contribution to the development and promotion of physics-of-failure modeling and analysis as a valuable reliability design and test process in the government, commercial and academic communities.”

National Aeronautics Space Agency (NASA) certificate of “recognition of your significant contributions in the preparation and execution of the successful Second U.S. Microgravity Payload (USMP-2) Mission, launched on March 4, 1994.”

Int’l Electronic Packaging Society (IEPS) Educational Award “for excellence in research and education at the University of Maryland CALCE Center (1990)”