

Central Pennsylvania Engineers Week Council  
National Engineers Week 2009  
Technical Achievement Award

Dr. Aldo Morales has been selected by the Central Pennsylvania Engineers Week Council to receive the 2009 Technical Achievement Award.

Dr. Morales and his wife Elena reside in Hummelstown, PA. He has been a faculty member at Penn State Harrisburg (PSH) since August 2001 and is currently a professor of the Electrical Engineering and Electrical Engineering Technology programs. Prior to joining PSH, he taught at Penn State DuBois. In addition, he was a Teaching Assistant and then Research Assistant at the State University of New York at Buffalo (SUNY-Buffalo).

Dr. Morales earned his B.S. in Electronic Engineering, with distinction, from Northern University (now University of Tarapaca), Arica, Chile in 1978. He was awarded a UNESCO scholarship to train in The International Centre for Theoretical Physics, Trieste, Italy, in 1983. Dr. Morales obtained his M.S. and Ph.D. degrees in Electrical and Computer Engineering, from SUNY-Buffalo, in 1986 and 1990, respectively. His research interests are in signal integrity, mathematical morphology, digital image processing, computer vision, and neural networks. Dr. Morales was honored by the Institute of Electrical and Electronics Engineers (IEEE) with **the Best Paper Award** at the International Asia Pacific Conference on Circuits and Systems for the paper "*Basis Matrix Representation of Morphological Filters with N-Dimensional Structuring Elements*" 1996; **Best poster paper award** at the IEEE International Conference on Consumer Electronics 2007, Las Vegas, Nevada, for the paper "*Transmitter Pre-emphasis and Adaptive Receiver Equalization for Duobinary Signaling in Backplane Channels*"; **Penn State Engineering Society's Outstanding Teaching Award**, Penn State University, 1999, and **Educator of the Year Award**, Penn State University-DuBois Campus, May 1998. He has 20 journal publications and 60 conference publications.

His research has been funded through several sources, among them Ben Franklin Technology Partners, Tyco Foundation, Agilent and Penn State. Dr. Morales is the Co-Director of the Center for Signal Integrity recently established at Penn State Harrisburg. The Center serves the electrical connector industry through the greater Harrisburg metropolitan area.

A strong advocate of volunteerism and professional activities, Dr. Morales is a senior member of the IEEE serving the institute's mission in various capacities. He has served the IEEE Susquehanna Section as Chair, Vice Chair/Program Chair, Secretary during the last 6 years. Currently he is in charge of educational activities. The IEEE, a non-profit organization, is the world's leading professional association for the advancement of technology with more than 375,000 members, including more than 80,000 students, in more than 160 countries.