

# Distinguished Achievement Award

Antenna Measurement Techniques Association

Distinguished Achievement Award

Presented to

**Dr. Vince Rodriguez**



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**The AMTA hereby cites Dr. Vince Rodriguez for:**

- Leadership in driving anechoic material and anechoic chamber design, EMC measurements, and antenna design and measurement.
- Leadership in developing antenna designs, antenna measurement standards, recommendations, procedures, and best practices.
- The design and development of novel antenna, feed, and probe designs including the introduction and development of the open-boundary quad-ridged and dual-ridged horn antennas.
- Contributions to the introduction, design, and development of hybrid absorber.
- Fostering education and technical growth of the next generation of engineers and scientists in the area of antenna measurements by serving as Distinguished Lecturer for the EMC Society, Adjunct Research Professor of Electrical Engineering at the University of Mississippi and presenting in numerous short courses.
- Contributions through publication by authoring or co-authoring over seventy conference papers, thirty journal publications, and three books on anechoic range design for electromagnetic measurements.
- For his many ongoing years of AMTA support including serving on the Board of Directors from 2010-2012 in the positions of Secretary and Vice President.
- For outstanding and pioneering contributions to the practice of material design, analysis, and measurements.

**For exemplifying and promoting the goals and objectives of the Antenna Measurement Techniques Association.**



**Dr. Vince Rodriguez** was born in Madrid, Spain to a family of Cuban exiles. His parents gave him the opportunity to study in the United States where he attended The University of Mississippi (Ole Miss) and obtained his B.S.E.E. in 1994. There, he was introduced to electromagnetic theory by Professors Elsherbeni, Kajfez, Kishk, and Glisson, after which he decided to continue his studies in electrical engineering. Following graduation, Dr. Rodriguez joined the Department of Electrical and Computer Engineering at Ole Miss as a research assistant. During his tenure there, he earned his M.S. and Ph.D degrees, both in engineering science with an emphasis in electromagnetics, in 1996 and 1999, respectively.

Dr. Rodriguez joined EMC Test Systems (now ETS-Lindgren) as an RF and electromagnetics engineer in June 2000. In this position, he was involved in e-field generator design and the RF design of several anechoic chambers, including rectangular and tapered antenna pattern measurement chambers operating from 100MHz to 40GHz. He was also the principal electromagnetics engineer for the anechoic chamber project at the Brazilian Institute for Space Research (INPE). INPE has the largest anechoic chamber in Latin America capable of testing vehicles, EMC and satellites.

In September 2004, Dr. Rodriguez was promoted to senior principal antenna design engineer with responsibilities in developing new antennas for different applications and improving on the existing antenna line. During this period, he introduced the concept of the open-boundary quad-ridged horn at AMTA in 2005. In the fall of 2010, he became ETS-Lindgren's antenna product manager, where he oversaw all technical and marketing aspects of the antenna products. While mainly dedicated to antenna design, Dr. Rodriguez continued his involvement in anechoic chamber design.

Dr. Rodriguez joined MI Technologies (now NSI-MI Technologies) as senior applications engineer in November 2014. In this role, Dr. Rodriguez worked on antenna design, RCS, HWIL, and radome measurement systems, as well as designing several associated anechoic ranges. In 2017, Dr. Rodriguez was promoted to staff engineer, positioning

him as the resident expert of RF absorber and indoor antenna ranges at NSI-MI. He continued to be involved in the design of antennas and special RF absorbers to meet the necessary specifications of large systems. In 2019, he was promoted to senior staff engineer given his stature in the industry. He was most recently appointed manager of the newly created chamber engineering group, where he directs the design of anechoic ranges.

Dr. Rodriguez is the author of more than 30 journal publications and over 70 conference papers, including over 25 AMTA papers. He is the author of a very well-received book on anechoic chamber design and has authored chapters in two other books. He is a senior member of the IEEE and several of its technical societies. Among these, he is a EMC Society member, where he served as distinguished lecturer from 2013 to 2014 and on the IEEE-EMC Board of Directors. Dr. Rodriguez also served as secretary in the IEEE AP-S Standards Committee and as secretary for the IEEE STD 149 and IEEE STD 1128 Working Groups. He currently serves as co-chair for the IEEE STD 1720 Working Group. Dr. Rodriguez is also a member of the Applied Computational Electromagnetic Society (ACES), where he served on its board of directors from 2014 to 2017. In 2019, he was elevated to an ACES Fellow. He has served as a reviewer for the ACES Journal, the IEEE Transactions on Antennas and Propagation, Electronic Letters and for the Journal of Electromagnetic Waves and Applications (JEWA). He has also served as reviewer for several IEEE, AMTA, ACES and EuCAP conferences and as chair of sessions at several conferences of the IEEE, AMTA, and CPEM (Conference on Precision Electromagnetic Measurements). Dr. Rodriguez has been Adjunct Research Professor of Electrical Engineering at Ole Miss since 2017 and is a full member of the Sigma Xi Scientific Research Society and Eta Kappa Nu Honor Society. Dr. Rodriguez holds patents for hybrid absorber and a dual ridge horn antenna.

Vince has been a member of the Antenna Measurement Techniques Association (AMTA) since 2000. On the Board of Directors of AMTA, he served as Meeting Coordinator (2010-2011) and Vice President during 2012. In 2014, he was named a Edmond S. Gillespie Fellow.