

Keynote Speech I

Number of Beams Extension for Butler Matrix Linear Array and Compact Two-Dimensional Planar

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BIOGRAPHY OF PROF AHMED A. KISK



Ahmed A. Kishk received the BS degree in Electronic and Communication Engineering from Cairo University, Cairo, Egypt, in 1977, and BSc. in Applied Mathematics from Ain-Shams University, Cairo, Egypt, in 1980. In 1981, he joined the Department of Electrical Engineering, University of Manitoba, Winnipeg, Canada, where he obtained his M. Eng. and Ph.D. degrees in 1983 and 1986, respectively. From 1977 to 1981, he was a research assistant and an instructor at the Faculty of Engineering, Cairo University. From 1981 to 1985, he was a research assistant at the Department of Electrical Engineering, University of Manitoba. From December 1985 to August 1986, he was a research associate fellow at the same department. In 1986, he joined the Department of Electrical Engineering, University of Mississippi, as an Assistant Professor. He was on sabbatical leave at Chalmers University of Technology, Sweden during the 1994-1995 and 2009-2010 academic years. He was a Professor at the University of Mississippi (1995-2011). He was the director of the *Center for Applied Electromagnetic System Research (CAESR)* during the period, 2010-2011. Currently, he is a Professor at Concordia University, Montréal, Québec, Canada (since 2011) as **Tier 1 Canada Research Chair in Advanced Antenna Systems**. He was an Associate Editor of *Antennas & Propagation Society News Letters* from 1990 to 1993. He is a distinguished lecturer for the Antennas and Propagation Society (2013-2015). He was an Editor of *Antennas & Propagation Magazine* (1993-2014). He was a Co-editor of the special issue, "Advances in the Application of the Method of Moments to Electromagnetic Scattering Problems," in the *ACES Journal*. He was also an editor of the *ACES Journal* during 1997. He was an Editor-in-Chief of the *ACES Journal* from 1998 to 2001. He was the chair of Physics and Engineering Division of the *Mississippi Academy of Science* (2001-2002). He was a Guest Editor of the special issue on artificial magnetic conductors, soft/hard surfaces, and other complex surfaces, in the *IEEE Transactions on Antennas and Propagation*, January 2005. He was a technical program committee member for several international conferences. He was a member of the AP AdCom (2013-2015). He was the 2017 AP-S president.

His research interest includes the areas of millimeter wave antennas for 5G applications, Analog beamforming network, Dielectric resonator antennas, microstrip antennas, small antennas, microwave sensors, RFID antennas for readers and tags, Multi-function antennas, microwave circuits, EBG, artificial magnetic conductors, soft and hard surfaces, phased array antennas, and computer aided design for antennas; reflect/transmitarray, wearable antennas, and Feeds for Parabolic reflectors. He has published over 340-refereed Journal articles and 450 conference papers. He is a co-author of four books and several book chapters and the editor of three books. He offered several short courses in international conferences.



Dr. Kishk and his students received several awards. Dr. Kishk won the 1995 and 2006 outstanding paper awards for papers published in the *Applied Computational Electromagnetic Society Journal*. He received the 1997 Outstanding Engineering Educator Award from Memphis section of the IEEE. He received the Outstanding Engineering Faculty Member of the Year in 1998 and 2009, Faculty research award for outstanding performance in research in 2001 and 2005. He received the Award of Distinguished Technical Communication for the entry of IEEE Antennas and Propagation Magazine, 2001. He also received The Valued Contribution Award for outstanding Invited Presentation, “EM Modeling of Surfaces with STOP or GO Characteristics – Artificial Magnetic Conductors and Soft and Hard Surfaces” from the Applied Computational Electromagnetic Society. He received the Microwave Theory and Techniques Society, Microwave Prize 2004. He received 2013 Chen-To Tai Distinguished Educator Award of the IEEE Antennas and Propagation Society. In recognition “For contributions and continuous improvements to teaching and research to prepare students for future careers in antennas and microwave circuits, Kishk is a Fellow of IEEE since 1998, Fellow of Electromagnetic Academy, and a Fellow of the Applied Computational Electromagnetics Society (ACES). He is a member of Antennas and Propagation Society, Microwave Theory, and Techniques, Sigma Xi Society, U.S. National Committee of International Union of Radio Science (URSI) Commission B, Phi Kappa Phi Society, Electromagnetic Compatibility, and Applied Computational Electromagnetics Society.