

Randy J. Jost – Biography for

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During his career in engineering, Dr. Randy J. Jost has worked in academia, industry, the US government, the US military and been a consultant. He received the BSEE (1978), MSEE (1980), and Ph. D. in EE (1988) from the University of Missouri-Columbia. He served as an officer in the USAF (1982-2006), and completed assignments at the Air Force Institute of Technology (AFIT) (1984-1988), in the Signature Technology Office (Air Force Research Laboratory) (1988-1991), Air Intelligence Agency and Electronic Warfare Center, (1989-1991) an assignment at the Defense Intelligence Agency, serving at the Pentagon with the Joint Chiefs of Staff, (1991-1996) and assignments at the Plasma Physics Laboratory and the High-Power Microwave office (1996-2006) at Kirtland Air Force Base, NM. He retired from the Air Force as a Lieutenant Colonel in 2006.

From 1991 to 1996, he worked as a Program Manager for SRI, International in Rosslyn, Virginia. During this period, he also served as an IPA for the Office of the Secretary of the Air Force for two years. In 1996, he took a position as the Technical Director/Director of Engineering for Johnson Controls, at the National RCS Test Facility through 2000. In 2001 he joined Utah State University and was an assistant professor in the Department of Electrical & Computer Engineering through 2005. Dr. Jost later worked for the University of Utah's Space Dynamics Laboratory from 2006 to 2011, where he was involved in the development and implementation of electromagnetic range and materials characterization activities both in the RF and optical area. In 2011 he accepted a position at Ball Aerospace and Technologies Incorporated, as a Staff Consultant in RF & Microwave Engineering, performing work in RCS and Antenna applications. During his time at Ball, he worked on many programs to develop sensing systems for various government organizations. In 2021 he retired from his position as a Staff Consultant in electromagnetic compatibility (EMC), where he provided company-wide support in EMC/EMI technologies, provided in-house training for EMC design & testing and carried out EMC design and testing for aerospace systems. Currently, he is an Adjunct Professor at Utah State University, is a consultant in EMC, electromagnetic and optical sensing, and teaches short courses in several topic areas, including EMC, Radar, and Optical Sensors. For more than 25 years, he has developed calibration and measurement procedures to accurately and verifiably measure the signatures of components, subsystems and platforms for aerospace systems. He has also been active in the development of analysis and prediction codes for the modeling and simulation of aerospace systems. Additionally, he has been active in developing codes for the modeling and simulation of the propagation of electromagnetic waves for such applications as optics, radar, wireless communications and electromagnetic compatibility. He is the author or co-author of multiple books and book chapters and has published more than 100 technical

papers and presentations in professional journals and the proceedings of national and international technical conferences.

Dr Jost is a Life Senior Member of the IEEE, and is active in several IEEE societies, including the APS, MTT, AES and NPS Societies as well as the Electromagnetic Compatibility Society, where he has served on the board of directors and as the chapter chair of several EMC chapters. serving on several committees and reviewing papers for both groups. Additionally, he founded the Utah joint APS/EMC chapter (chair) and the Utah joint MTT/AES chapter (secretary). Dr Jost is a senior member of the Antenna Measurement Techniques Association, where he also served a term on the Board of Directors and has been involved in teaching short courses and supporting student activities. He is also a member of the Association of Old Crows and SPIE.

He was a licensed professional Engineer in the state of Virginia, and is an iNARTE certified EMC Engineer, an iNARTE certified Spectrum Management Engineer, a licensed Commercial Radio Operator, and a Licensed Amateur Radio Operator, Extra Class (N8NAZ).