

Richard F. Bradley earned the B.S.E.E and M.S.E.E degrees in 1982, 1983 from Carnegie-Mellon University, and the Ph.D degree in E.E. from the University of Virginia in 1992.

In 1981 and 1983 Dr. Bradley held internships with the National Radio Astronomy Observatory (NRAO) in Green Bank, WV where he developed instrumentation for laboratory and field work associated with astronomy systems. Upon successful completion of his masters thesis in 1983 investigating novel electrohydrodynamic effects on heat transfer, he joined the NRAO staff in Green Bank as a radio frequency engineer where he designed low noise, cryogenic receivers for the 300 ft and 140 ft radio telescopes before moving to Charlottesville, VA in 1987 to become a graduate student working in the areas of semiconductor devices and nonlinear circuit development.

Upon completing his Ph.D he joined the NRAO Central Development Laboratory in Charlottesville where he is currently a Staff Scientist and Senior Research Engineer. He is also a research professor in the Dept. of Astronomy and holds an adjunct faculty position in the Dept. of Electrical and Computer Engineering at the University of Virginia. As both an active scientist and engineer, he serves as a liaison among researchers to develop and optimize instruments for a wide variety of forefront scientific applications in the challenging field of radio astronomy. He has contributed to a wide range of radio instrumentation research and development initiatives including pioneering studies in radio interference excision and focal plane phased arrays. His scientific interests include cosmology, fundamental particle physics, ionospheric physics, and helophysics. His technology experience spans radio astronomy receivers, scientific instrumentation, low noise electronics, electromagnetic fields, signal processing, and spacecraft-base radiometers.

Dr. Bradley is Chair of Commission J, U.S. National Committee for the International Union of Radio Science (URSI) – an advisory committee of the National Academy of Sciences and is an Associate Editor of the journal *Radio Science*. He is currently serving as the Associate Director of the Mid-Atlantic Region of Sigma Xi. He was also elected to membership in Eta Kappa Nu and Tau Beta Pi. He is a member of the Institute for Electrical and Electronic Engineers (IEEE), American Physical Society (APS), the American Astronomical Society (AAS), American Geophysical Union (AGU), and the American Radio Relay League (ARRL). He has served on numerous review panels for NASA, NSF, and other funding organizations. He received an outstanding referee award in 2010 and 2012 from the journal *Review of Scientific Instruments*. He is the Principal Investigator on several scientific research grants and has over 80 research publications and one patent. He has considerable experience in teaching undergraduate and graduate level courses and advising graduate students from both engineering and science. He is also active in public outreach programs involving local middle and high school students. He serves annually as a judge for the regional and state Science Fairs of Virginia.