

Biographical Sketch

Robert G. Marshalek was born in Baltimore, Maryland, in 1954. He received the B.E.S. and Ph.D. degrees in electrical engineering from The Johns Hopkins University, Baltimore, Maryland, in 1976 and 1982, respectively. From October 1981 to September 1987 he was a member of the technical staff in the Optical Communications Department of COMSAT Laboratories, Clarksburg, Maryland. His work there included theoretical and experimental studies of wavelength division multiplex links, fiber-optic local area networks, and optical intersatellite link technology. He also contributed to a study of the intermodulation, noise power ratio, and AM/PM conversion performance of soft-limited and linearized TWTAs at Ku-band.

In September 1987, he joined Ball Aerospace Systems Division, Boulder, Colorado, as a principal design engineer, to pursue modeling and experimental characterization of components and subsystems for space laser communications. Additional duties have included system engineering for several infrared sensor and lidar applications, and development of laser communications for telecommunications, high-speed data relay networks, space station proximity operations, the Strategic Defense System, and tactical missions. He has published several papers on laser communications in a variety of refereed journals and technical conferences and symposia. He is currently a staff consultant at Ball Aerospace, and is a member of Phi Beta Kappa, Tau Beta Pi, and Eta Kappa Nu.