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Education:

B. A., Physics, Rice University, 1967
M. S., Space Science, Rice University, 1971
Ph.D., Space Science, Rice University, 1973

Positions Held:

Oct. 1990 - June 2000, Distinguished Faculty Fellow, Rice University
Jan. 1986 – Oct. 1990, Senior Research Scientist, Rice University
May 1980 – Dec. 1985, Associate Research Scientist, Rice University
Sep. 1976 - May 1980, Assistant Professor, Rice University
Sep. 1975 – Aug. 1976, NAS/NRC Resident Research Associate, NOAA
Environmental Research Laboratories
June 1974 – Aug. 1975, Senior Research Associate, Rice University
Nov. 1972 - May 1974, Postdoctoral Research Associate, Rice University

Present Position:

Professor, Physics & Astronomy Dept., Rice University, Houston, TX.

Awards:

NASA Group Achievement Award (Cassini Program), April 1998
James B. Macelwane Award (American Geophysical Union), May 1980
NAS/NRC Resident Research Associateship, 1975-1976

Memberships:

American Geophysical Union (Fellow)
American Association for the Advancement of Science
International Association of Geomagnetism and Aeronomy

Relevant Publications:

- Toffoletto, F. R., and T. W. Hill, A nonsingular model of the open magnetosphere. *J. Geophys. Res.*, **98**, 1339, 1993.
- Toffoletto, F. R., R. V. Hilmer, T. W. Hill, and G. -H. Voigt, Solution of the Chapman-Ferraro problem with an arbitrary magnetopause, *Geophys. Res. Lett.*, **21**, 621, 1994.
- Ding, C., T. W. Hill, and F. R. Toffoletto, Improvement of the Toffoletto-Hill open magnetosphere model, in *Physics of Space Plasmas (1995), Number 14*, (T. Chang and J. R. Jasperse, eds.), MIT Center for Theoretical Geo/Cosmo Plasma Physics, Cambridge, MA, p. 639, 1996
- Hill, T. W., and F. R. Toffoletto, Comparison of empirical and theoretical polar-cap convection patterns for the January 1992 GEM interval, *J. Geophys. Res.*, **103**, 14,811, 1998.
- Urquhart, A. L., et al., Polar magnetopause crossings of May 29, 1996: implications for magnetic field modeling, *J. Geophys. Res.*, **103**, 17,323, 1998.
- Toffoletto, F. R., and T. W. Hill, Field line mapping and Birkeland currents, in *Magnetospheric Current Systems, Geophys. Monograph 118*, (R. Fujii, M. Hesse, R. Lysak, and S. Ohtani, eds.), Am. Geophys. Un., pp. 71-79, 2000.
- Hairston, M. R., T. W. Hill, and R. A. Heelis, Observed saturation of the ionospheric polar cap potential during the 31 March 2001 storm, *Geophys. Res. Lett.*, **30**, 1325, doi:10.1029/2002GL015894, 2003.