Pete Riley
Senior Scientist,
Predictive Science, Incorporated, San Diego, CA

EDUCATION

Rice University, Houston, Texas: Ph.D., 1994.
University of Sussex, Brighton, England: M.Sc., 1989.
University College Cardiff, Cardiff, Wales: B.Sc., 1988.

EXPERIENCE

Pete Riley obtained his Ph.D. (thesis title: "Electrodynamics of the low latitude ionosphere") from the department of Space Physics and Astronomy at Rice University under R. A. Wolf in May 1994. After spending two years at the University of Arizona, he became a postdoctoral research fellow, and subsequently technical staff member, at Los Alamos National Laboratory. Pete then worked for 10 years at Science Applications International Corporation. Currently, he is a senior scientist at Predictive Science Incorporated in San Diego. He is particularly interested in 3-D, time-dependent MHD simulations of large-scale heliospheric processes, including solar wind streams and coronal mass ejections. Pete analyzes a variety of solar and interplanetary datasets, and is a team member of the STEREO, Ulysses, and ACE plasma instrument teams. In 1998 he was awarded a group achievement award for his contribution to the Advanced Composition Explorer mission. He is also an active participant of NSF's CISM program. He has published over 30 papers in the field of space physics, and particularly in the area of heliospheric physics. He is an editor for Reviews of Geophysics, and recently completed a term as associate editor with Geophysical Research Letters. He regularly reviews papers for the Journal of Geophysical Research, Geophysical research letters, Astrophysical Journal, and Astrophysical Journal Letters, among others and has been awarded an editors' citation for excellence in refereeing for the Journal of Geophysical Research. Currently he serves on the CCMC science committee, AGU's SPA executive committee, and the American Astronomical Society, Space Physics Division E/PO committee. He recently completed a 3-year term as the chair of NSF's SHINE steering committee and has served on several NASA science definition teams and programmatic steering committees. Pete he is a member of the American Geophysical Union (AGU) and the AAS/SPD.

SELECTED RECENT PUBLICATIONS:

Pete Riley, J. A. Linker, Z. Mikic, and R. Lionello, Global MHD Modeling of the Solar Wind and CMEs: Energetic Particle Applications, Volume 1039, p. 279, *AIP*, 2008.
Pete Riley, R. Lionello, Z. Mikic, and J. A. Linker, Using Global Simulations to Relate the Three-part Structure of Coronal Mass Ejections to in situ Signatures, *Ap. J.,* 672, 1221, 2008.
Pete Riley, An Alternative interpretation on the relationship between the Inferred Open Solar Flux and the Interplanetary Magnetic Field, *Ap. J. Lett.,* 667, L97-L100, 2007.
Pete Riley and J. T. Gosling, On the origin of near-radial magnetic fields in the heliosphere: Numerical simulations, *J. Geophys. Res.,* 112, A06115, doi:10.1029/2006JA012210, 2007.
Pete Riley et al., "Bursty" reconnection during solar eruptions: MHD Simulations and comparison with observations, *Ap. J.,* 655, 591, 2007.
Pete Riley and J. T. Gosling, Comment on "Are high-latitude forward-reverse shock pairs driven by over-expansion?" by Manchester and Zurbuchen, *J. Geophys. Res.,* 112, A7, CiteID A07102, 2007.
Pete Riley, Modeling corotating interaction regions: From the Sun to 1 AU, *JASTP*, 69, 32, 2007.
Pete Riley et al., A Comparison between Global Solar Magnetohydrodynamic and Potential Field Source Surface Model Results, *Ap. J.,* 653, 1510, 2006.
Pete Riley et al., On the rates of coronal mass ejections: remote solar and in situ observations, *Ap. J.,* 647, 648, 2006.
Pete Riley, J. A. Linker, Z. Mikic, and D. Odstrcil, Modeling interplanetary coronal mass ejections, *Adv. Space. Res.,* 38, 535, 2006.