

CURRICULUM VITAE

DR. JON A. LINKER

EDUCATION

University of California, Los Angeles: Ph.D., 1987, Geophysics & Space Physics

University of California, Los Angeles: M. S., 1984, Geophysics & Space Physics

University of California, Davis: B. S., 1980, Physics

EXPERIENCE

Dr. Jon A. Linker is the president of Predictive Science Incorporated (PSI). He has over twenty years of experience in the development and application of large-scale magnetohydrodynamic (MHD) simulations to problems in space plasma physics. After receiving his bachelor's degree, Dr. Linker worked as a systems engineer for Comptek Research, Inc. Dr. Linker received his M.S. and Ph.D. degrees from UCLA, where he worked under the direction of Professor Margaret Kivelson and developed a three-dimensional MHD simulation of Io's interaction with the plasma torus. In 1987, Dr. Linker joined the University of California, Irvine (UCI), where he began his interests in solar physics. Dr. Linker joined the University of California, San Diego in 1992, where he continued his research in solar physics and planetary magnetospheres. In 1994, Dr. Linker joined SAIC in San Diego. He was promoted to Senior Research Scientist in 1997 and he became an Assistant Vice President for Technology in 2002. In 2003, he was promoted to director of the Center for Energy and Space Sciences. He served in that capacity until 2008, when he left SAIC to co-found PSI.

Dr. Linker's interests in solar and heliospheric physics include the structure of the large-scale corona, the evolution and eruption of coronal magnetic fields, the initiation of coronal mass ejections, and the application of coronal and solar wind models to space weather forecasting. Dr. Linker is PI or Co-I on several NASA and NSF contracts. He is a Co-I on the Sun Earth Connection Coronal and Heliospheric Investigation (SECCHI) and the In situ Measurements of Particles and CME Transients (IMPACT) instruments on NASA's STEREO mission, and he is a Co-I on the Helio Seismic and Magnetic Imager on NASA's Solar Dynamics Observatory (launch 2009). Dr. Linker served on the SHINE (Solar, Heliospheric, and Interplanetary Environment) Steering Committee from 1995-2004, and he was Chair from 2001-2004. Dr. Linker's professional affiliations include the American Association for the Advancement of Science, the American Astronomical Society, and the American Geophysical Union. He was co-winner of the SAIC Publication Prize for Physics in 1994 and 1999, and co-winner of the 2006 SAIC RDT&E Group performance award.

TEN SELECTED PUBLICATIONS:

Linker, J. A., G. Van Hoven, and D. D. Schnack, "A three-dimensional simulation of a coronal streamer," *Geophys. Res., Lett.*, **17**, 2281-2284 (1990).

Mikic, Z., and J. A. Linker, "Disruption of coronal magnetic arcades," *Astrophys. J.*, **430**, 898 (1994).

Linker, J. A., and Z. Mikic, "Disruption of a helmet streamer by photospheric shear," *Astrophys. J.*, **438**, L45 (1995).

Linker, J. A., Z. Mikic, and D. D. Schnack, "Global coronal modeling and space weather prediction," in *Solar Drivers of Interplanetary and Terrestrial Disturbances* (K. S. Balasubramaniam, S. L. Keil, and R. N. Smartt, eds.) *Astron. Soc. Pac.*, **95**, 208 (1996).

Linker, J. A., and Z. Mikic, "Extending coronal models to Earth orbit," in *Coronal Mass Ejections: Causes and Consequences* (N. Crooker, J. Joselyn, and J. Feynman, eds.), *Geophysical Monograph*, **99**, 269 (1997).

Linker, J. A., Z. Mikic, D. A. Biesecker, R. J. Forsyth, S. E. Gibson, A. J. Lazarus, A. Lecinski, P. Riley, A. Szabo, and B. J. Thompson, "Magnetohydrodynamic modeling of the solar corona during whole sun month," *J. Geophys. Res.*, **104**, 9809 (1999).

Linker, J. A., R. Lionello, Z. Mikic, and T. Amari, "Magnetohydrodynamic modeling of prominence formation within a helmet streamer," *J. Geophys. Res.*, **106**, 25,165 (2001).

Linker, J. A., Z. Mikic, R. Lionello, P. Riley, T. Amari, and D. Odstrcil "Flux cancellation and coronal mass ejections," *Phys. Plasmas*, **10**, 1971 (2003).

Lionello, R., J. A. Linker, Z. Mikic, and P. Riley, "The latitudinal excursion of coronal magnetic field lines in response to differential rotation: MHD Simulations," *Astrophys. J.*, **642**, L69 (2006).

Lionello, R., J. A. Linker, and Z. Mikic, "Multi-spectral Emission of the Sun during the first Whole Sun Month: MHD Simulations," *Astrophys. J.*, in press (2008).