Space Plasma and Radiation Environments: A Scientific Retrospective in Honor of Thomas P. Armstrong

September 13, 2003
University of Kansas

Program

8:45-9:00	Welcome and logistics

Session A: Heliosphere and Solar Wind

9:00-9:30	R. B. Decker, Johns Hopkins University Applied Physics Laboratory *The Outer Heliosphere* (invited)
9:30-9:45	Dennis Haggerty, Johns Hopkins University Applied Physics Laboratory *Near-Relativistic Electron Acceleration by Coronal Mass Ejections*
9:45-10:00	Joe Giacalone, LPL, University of Arizona *Solar Cosmic Rays*
10:00-10:15	J. Douglas Patterson, Fundamental Technologies and Johnson County Community College *Steady-State Event-Excluded Proton Spectra at Solar Minimum at all Heliolatitudes*
10:15-10:30	--coffee break--
10:30-10:45	Carol Maclennan, Lucent Technologies *Traveling with HiScale, and Other Adventures*
10:45-11:00	Mikhail Medvedev, University of Kansas *Collisionless Dissipative Nonlinear Alfven Waves: Nonlinear Steepening, Particle Trapping, and Compressible Turbulence*

Session B: Terrestrial and Planetary Magnetospheres

11:00-11:30	S. M. Krimigis, Johns Hopkins University Applied Physics Laboratory *Planetary Magnetospheres* (invited)
11:30-11:45	Mona Kessel, NASA Goddard Space Flight Center *Crossing Magnetospheric and Discipline Boundaries*
11:45-12:00	Lucas Miller, Fundamental Technologies and the University of Kansas *Verification of the Galileo EPD Pitch and Phase Angles*
12:00-2:00	--lunch break--
2:00-2:15	E. V. Bell, II, QSS Group, Inc. *Development of a Magnetospheric State-Based Trapped Radiation Database*
2:15-2:30	Thomas E. Cravens. University of Kansas *X-Ray Emission as a Diagnostic for Magnetosphere-Ionosphere Coupling at Jupiter*
2:30-2:45	Claude Laird, University of Kansas and Haskell Indian Nations University *Ozone Layer Effects from Nearby Supernovae*

Session C: Space Technology, Simulations, and Dusty Plasmas

2:45-3:15	Dennis W. Hewett, Lawrence Livermore National Laboratory *Adaptive Particle Simulation: The Next Step in Simulation?* (invited)
3:15-3:30	--coffee break--
3:30-3:45	Yue Ernest Wu, Semiconductor Research and Development Center, IBM *Technological Advances in Very Large Integrated Circuits*
3:45-4:00	Alexei Nikitin, A3RD LLC *An Instrument "Malfunction" on IMP-8 and What It Taught Us*
4:00-4:15	Jerry Manweiler, `Fundamental Technologies *Dusty Plasmas - Enhancements to Coagulation Rates and Application to the Protoplanetary Nebula*
4:15-4:30	Shawn Stone, Buena Vista University *Teaching Planet Exploration to Elementary School Students Utilizing a Web-Run Wireless Rover*
4:30-4:45	Gene Holland, LASP, University of Colorado at Boulder *The New Horizons Mission and the Student Dust Counter (SDC)*
4:45-5:00	Wrap-up
6:30	--prepaid banquet at Hereford House--