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Benson RC, Phillips TE, Boies MT, and Uy OM
Neutral mass spectrometer results from MSX early operations phase.

Bhatnagar V
Fiber-optic transmission line for the distribution of time and frequency signals.

Bishop J, Persing J, Strickland DJ, Evans JS, Cox RJ, Anderson DE Jr, Paxton LJ, Morrison MD, Romick G, and Meng CI
Simulation of space-borne optical sensor data: 1. Modeling capabilities with examples.

Boies MT, Cole TD, El-Dinary AS, and Reiter RA
Optical system development and performance testing of the NEAR laser rangefinder.

Boies MT, Phillips TE, Silver DM, El-Dinary AS, Uy OM, and Dyer JS
Total pressure sensor results from the early operations phase of the MSX mission.

Cole TD, and Davidson F
Performance evaluation of the NEAR Laser Rangefinder.

El-Dinary AS, Boies MT, Cole TD, Reiter RA, and Rodriguez DE
Pre-launch and post-launch testing of the Near Earth Asteroid Rendezvous (NEAR) Laser Rangefinder.

El-Dinary AS, Reiter RA, Rodriguez DE, and Cole TD
Control software for the Near Earth Asteroid Rendezvous (NEAR) Laser Rangefinder.

Erlandson RE, Boies MT, Uy OM, Grebowsky J, and Coulson JT
MSX contamination experiment ion mass spectrometer observations during early operations.

Kennedy MJ, Friedman SD, Barkhouser RH, Hampton J, and Nikulla P
Design of the far ultraviolet spectroscopic explorer mirror assemblies.

Le BQ, Stillman LE, Cole TD, Rodriguez DE, Reiter RA, Moore RC, Boies MT, Schaefer ED, and Krein SJ
The NEAR Laser Rangefinder light-weight packaging design.

McNutt RL Jr, Mitchell DG, Keath EP, Paschalidis NP, Gold RE, and McEntire RW
A compact particle detector for low-energy particle measurements.

Moore RC, and Rodriguez DE
Single board digital processing system approach for the NEAR Laser Rangefinder instrument.

Reiter RA
A direct design approach to developing the analog receiver electronics for the NEAR Laser Rangefinder.

Sears RD, Romick G, Morrison D, and Murphy P
Stratospheric and lower mesospheric structure sounding using UV-visible band spectral imagery.

Strikwerda TE, and Fisher HL
Analysis of the NEAR star tracker flight data.

Suter JJ, and Dragonette RA
Fiber-optic transmission line for the distribution of time and frequency signals.

The following papers were presented at the 1st Alfven Conference on Low-Altitude Investigation of Dayside Magnetospheric Boundary Processes, Kiruna, Sweden (9–13 Sep 1996):

Erlandson RE, Zanetti LJ, Gary JB, Ohtani S, Yamauchi M, Clemmons J, and Blomberg L
Identification of the polar cusp using broadband magnetic fluctuations: Freja observations.

Meng CI, Newell PT, and Sibeck DG
The morphology and dynamics of the dayside oval.

Ohtani S, Elphinstone RD, Blomberg L, Yamauchi M, and Troshichev OA
Response of the dayside auroral and electrodynamic process to variations in the interplanetary magnetic field.

Ohtani S, Rostoker G, Angelopolous V, Nakamura M, Takahashi K, Kokubun S, Singer HJ, Tsuruda K, Hughes WJ, Zanetti LJ, Potemra TA, Gary JB, Lui ATY, and Williams DJ
Coordinated ISTP satellite-ground study of morning-side Pc 5 waves.

Potemra TA
A tribute to Hannes Alfven.

Sigwarth JB, Frank LA, Craven JD, Meng CI, Parks GK, Killeen TL, and Sharp WE
Images of Earth's auroras from the visible imaging system (VIS) for the POLAR spacecraft.

Zanetti LJ
Ionospheric currents from Freja and predicted geomagnetic induced current.

COLLOQUIA

The following topics were recently presented at the weekly APL colloquium:

4 Oct
Stochastic Approximation in System Optimization, JC Spall, APL

11 Oct
Magnetic Resonance Imaging (MRI) of the Heart, E McVeigh, Dept. of Biomedical Engineering, JHU

25 Oct
The Dynamics of Learning from Examples, SA Solla, AT&T Research Laboratories

1 Nov
Population, Environment, and Development, G Piel, *Scientific American*

8 Nov
Disposal of Nuclear Waste, HW Kendall, M.I.T.

15 Nov
Technology and the Future of Scholarly Communications, JG Neal, Milton S. Eisenhower Library, JHU

22 Nov
Odor Encoding by the Olfactory System: From Biology to an Artificial Nose, J Kauer, Tufts University School of Medicine