

- Vogel, W. J. (Univ. Texas), Goldhirsh, J. (APL), Torrence, G. W. (Univ. Texas), and Rowland, J. R. (APL), "Remote Sensing of Tree Attenuation at 870 MHz along Simulated Earth-Satellite Paths," 1986 Intl. Geoscience and Remote Sensing Symp., Zurich (Sep 8-11).
- Wilkinson, W. O., and Fox, H. G., "West Chamber Cryopump System Upgrade Project," 33rd Meeting, AIAA Working Group on Space Simulation, Ottawa (Sep 22-25).
- Wilkinson, W. O., and Fox, H. G., "Computer Aided Thermal Test System (CATTS)," 33rd Meeting, AIAA Working Group on Space Simulation, Ottawa (Sep 22-25).

The following papers were presented at the Spring Meeting of the American Geophysical Union, Baltimore (May 19-23, 1986):

- Erlandson, R. E. (APL), Cahill, L. J., Jr. (Univ. Minnesota), Pollock, C. J., and Arnoldy, R. L. (Univ. New Hampshire), "Observations and Simulations of Electrostatic Ion Waves Excited by an Artificial Ion Beam in the Ionosphere";
- Goodrich, C. C. (Univ. Maryland), Mankofsky, A. (Science Applications International), and Lui, A. T. Y. (APL), "Hybrid Simulations of the AMPTE Lithium and Barium Releases in the Solar Wind";
- Papadopoulos, K. (Science Applications International), Huba, J. D., and Fedder, J. A. (Naval Research Lab.), and Lui, A. T. Y. (APL), "Collisionless Coupling in the AMPTE Artificial Comet and Its Relevance to Cometary Plasmas."

The following papers were presented at the XXVI COSPAR Meeting, Toulouse, France, (Jun 30-Jul 12, 1986):

- Cahill, L. J., Jr. (Univ. Minnesota), Erlandson, R. E. (APL), Arnoldy, R. L., and Pollock, C. J. (Univ. New Hampshire), "Plasma Waves Generated in the Ionosphere by Argon Ion Beams";
- Mauk, B. H., and Meng, C.-I., "Plasma Injection During Substorms";
- Mitchell, D. G., and Williams, D. J. (APL), Lundin, R. (Kiruna Geophysical Inst.), Cattell, C. A., Mozer, F. S., Elphic, R. C., and Russell, C. T. (Univ. Calif.), "Pulsations in Magnetospheric Ion Anisotropies at 6 to 20  $R_E$ , Observations from ISEE-1";
- Potemra, T. A., Zanetti, L. J. (APL), and Gustafsson, G. (Uppsala Ionospheric Observatory), and Acuña, A. (NASA/GSFC), "First VIKING Results: Magnetic Field";
- Sibeck, D. G., McEntire, R. W., and Krimigis, S. M., "Butterfly PAD's in the Day-side Inner Magnetosphere: Evidence for Drift Shell Splitting."

The following papers were presented at the URSI Commission F Open Symp. on Wave Propagation and Remote Sensing, Durham, N.H. (Jul 28-Aug 1, 1986):

- Dockery, G. D., "Modeling Electromagnetic Wave Propagation in the Troposphere Using the Parabolic Equation";
- Gray, E. P., and Bird, J. F., "A Variational Approach to Scattering from the Ocean Surface: A Sinusoidal Model";
- Vogel, W. J. (Univ. Texas), Goldhirsh, J. (APL), Torrence, G. W. (Univ. Texas), and Rowland, J. R. (APL), "Tree Attenuation

Measurements at 870 MHz Along Simulated Earth-Satellite Paths."

The following papers were presented at the NATO Electromagnetic Silencing Symp., Rome (Oct 6-10, 1986):

- Hart, L. W., Keys, G. S., and Chambers, W. M., "Laser Tracking for Magnetic Ranging";
- Jose, M. J., Meritt, J. W., and Hart, L. W., "Design and Implementation of a Computer Graphics System for Managing Magnetic Silencing Facilities";
- Vasholz, D. P., Agnello-Restione, J. S., Jose, M. J., and Hart, L. W., "Design and Implementation of a CAD System for Predicting the Magnetic Signature of Minesweepers."

## COLLOQUIA

- Sep 25, 1986 — "Chernobyl and the Future of Nuclear Energy," A. M. Weinberg, Institute for Energy Analysis.
- Oct 3 — "Magnetospheres of the Outer Planets," A. F. Cheng, APL.
- Oct 10 — "Scientific Discovery: A Psychological Account," H. A. Simon, Carnegie-Mellon University.
- Oct 17 — "Quasicrystals," P. J. Steinhardt, University of Pennsylvania.
- Oct 24 — "Relaxation in Complex Systems," J. Klafter, Exxon Research Laboratories.
- Oct 31 — "Progress Towards a Tokamak Fusion Reactor," H. P. Furth, Princeton Plasma Physics Laboratory.
- Nov 7 — "Nutrient Enrichment and the Chesapeake Bay," C. F. D'Elia, University of Maryland.

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