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

Mauk, B. H., and Meng, C.-I., "Plasma Injection During Substorms";
Potemra, T. A., Zanetti, L. J. (APL), and Gustafsson, G. (Uppsala Ionerpheric Observatory), and Acuña, A. (NASA/GSFC), "First VIKING Results: Magnetic Field";

The following papers were presented at the URI 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. F., 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";
Vasholz, D. P., Agnelo-Restonie, J. S., Jose, M. J., and Hart, L. W., "Design and Implementation of a CAD System for Predicting the Magnetic Signature of Mine-sweepers."

COLLOQUIA

Oct 3 — "Magnetospheres of the Outer Planets," A. F. Cheng, APL.
Nov 7 — "Nutrient Enrichment and the Chesapeake Bay," C. F. D'Elia, University of Maryland.

AUTHOR INDEX

Johns Hopkins APL Technical Digest

Volume 7, 1986

Aamodt, L. C.—See Murphy, J. C.
Acuña, M. H.—See Potemra, T. A.
Adrian, F. J.—Predicting the Effect of the Trap on the Trapped Radical, No. 3, 324.
Ahlbrand, S. D.—See Schachtner, S. R.
Alpher, R. A.—In the Beginning..., No. 2, 223.
Apel, J. R.—A Linear Response Theory for Waves in a Geophysical Fluid, No. 1, 42.
Barger, C. B.—See Benson, R. C.
Barger, C. B.—See Fristrom, R. M.
Barger, C. B.—See McCall, R. L.
Benson, R. C.—See Fristrom, R. M.
Berl, W. G.—The Twenty-Two Most Frequently Cited APL Publications—III, No. 4, 394.
Black, H. D.—See Strikwerda, T. E.
Bolohan, J.—See Adrian, F. J.
Bolohan, J.—See Kim, B. F.
Boland, T. G.—See Charles, H. K., Jr.
Breitford, F. P.—See West, R. L.
Brocato, R. C.—See McHenry, C. W.
Charles, H. K., Jr.—See Clatterbaugh, G. V.
SUBJECT INDEX
Johns Hopkins APL Technical Digest
Volume 7, 1986

BASIC SCIENCE INVESTIGATIONS

58 Electromagnetic Scattering Theory

BIOMEDICAL PROGRAMS

73 Nonionizing Radiation Damage in the Eye

BOOK REVIEWS

233 Estimating Eigenvalues with A Posteriori/A Priori Inequalities, by J. R. Kuttler and V. G. Sigillito
234 Role of Language in Problem Solving—I, R. Jernigan, B. W. Hamill, and D. M. Weintraub (eds.)
327 Clinical Information Systems, by B. I. Blum

COMPUTER-AIDED DESIGN AND FABRICATION

250 Putting Computer-Aided Design to Work
256 Computer-Aided Engineering for Structural Analysis
260 Numerical Control Fabrication: Its Nature and Application
265 Computer-Aided Manufacturing for Electronic Circuit Board Fabrication

COMPUTER SCIENCE AND SYSTEMS

15 Artificial Intelligence Research at the APL Research Center: An Overview
19 A Hierarchical Computer Vision Program
23 An Expert System for Designing Information Systems
31 Modeling the Acquisition and Representation of Knowledge for Distributed Tactical Decision Making
372 IPECAC: An Expert System for the Management of Poisoning Incidents

Uy, O. M.—See Fristrom, R. M.
Vest, C. E.—See Fristrom, R. M.
Wachter, R. F.—See Goldfinger, A. D.
Wagner, G. D.—See Strider, R. S.
Weiffenbach, G. C.; Dobson, E. B.; Krimigis, S. M.—Some Work in Progress in APL’s Space Department, No. 1, 117.
West, R. L.; Brelsford, F. P.; Eschbach, R. A.—The Computer-Aided Design and Engineering Facility, No. 3, 244.
Westenberg, A. A.—Measurements of Rates of Elementary Reactions, No. 2, 228.
Williams, D. J.—Particles and Fields in Space, No. 4, 394.
Zanetti, L. J.—See Potemra, T. A.
Zarriello, P. R.—See Murphy, J. C.