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- Ruth, M. J., "EXDRONE: Expendable Drone Guidance and Control System Features," 1988 Assoc. Unmanned Vehicle Systems (AUVS) Symp. on Very-Long-Endurance Aircraft, Menlo Park, Calif. (26-27 Jan 1988).
- Steinberg, R. A., and Rivera, J. J., "Ship Detection at Low Signal-to-Noise," IRIS Specialty Group Meeting on Passive Sensors, JHU/APL, Laurel (15-17 Mar 1988).
- Suter, J. J., Bates, A. G., and Cloeren, J. M., "The Radiation Susceptibility of BVA-AT Resonators to Simulated Medium Earth Orbit Radiation," Proc. 2nd European Time and Frequency Forum, Neuchâtel, Switzerland (Mar 1988).
- Thomas, M. E., "The Water Vapor Continuum of 2 Microns and the Nitrogen Continuum," 1988 Meeting of the IRIS Specialty Group on Atmospheric Physics, JHU/APL,



Laurel (17 Mar 1988).

Vogel, W. J. (Univ. Texas, Austin), and Goldhirsh, J. (APL), "Land Mobile Satellite Service: A Comparison of Simultaneous Measurements at UHF and L-Band," 22nd General Assembly of the International Union of Radio Science, Tel Aviv (24 Aug-2 Sep 1987).

The following papers were presented at the American Physical Society March Meeting, New York (16-20 Mar 1987):

Bhagat, S. M., and Liao, S. B. (Univ. Maryland), Moorjani, K. (APL), and Manheimer, M. A. (Lab. for Phys. Sci.), "Spin Resonance in the  $a\text{-Mn}_x\text{B}_{100-x}$  System";  
Burk, A. A., and Moorjani, K. (APL), and Armstrong, J. V., and Coey, J. M. D. (Trinity College, Dublin), "Wavelength Selection of Deposition Products in Laser-Assisted Chemical Vapor Deposition";  
Manheimer, M. A. (Lab. for Phys. Sci.), Bhagat, S. M. (Univ. Maryland), and Moorjani, K. (APL), "Determination of Coordination Number by Magnetic Resonance in Reentrant Ferromagnets";  
Shull, R. D., Atzmony, U., Swartzendruber, L. J., and Bennett, L. H. (NBS), and Moorjani, K. (APL), "Granular Metal/Magnetic Oxide Solids."

The following papers were presented at the AGU Ocean Sciences Meeting, New Orleans (18-22 Jan 1988):

Apel, J. R., Gasparovic, R. F., Thompson, D. R., and Gotwols, B. L., "Surface Signatures of Internal Waves: A Case of Hydrodynamic/Electromagnetic Interactions";  
Gotwols, B. L., Sterner, R. E., II, and Thompson, D. R., "Observations of Resonant Interactions between Wind Waves and Large Amplitude Internal Waves";  
Thompson, D. R., Gotwols, B. L., and Sterner, R. E., II, "Surface Wave Modulations Due to Large Amplitude Internal Waves."

The following papers were presented at the American Physical Society Spring Meeting, New Orleans (21-25 Mar 1988):

Fortner, J., and Lannin, J. S. (Penn State Univ.), and Fainchtein, R. (APL), "Structural Order in Amorphous Silicon";  
Jette, A. N., Nall, B. H., and Barger, C. B., "Calculations of Fine Structure Observed in Low-Energy Current Image Diffraction (CID)";  
Maclachlan, J. W., Murphy, J. C., and Aamodt, L. C., "Sub-Bandgap Probing for Characterization of CdS";  
Taylor, J. N., and Chien, C. L. (JHU), and Phillips, T. E., Kistenmacher, T. J., and Poehler, T. O. (APL), "Magnetic Thin Films Studied by Polarization Modulation Ellipsometry."

## COLLOQUIA

4 Mar 1988—"The Detection of Free Radicals in Biological Systems: Implications in Human Disease," G. M. Rosen and G. B. Bulkeley, JHU.  
11 Mar—"An Overview of the Antarctic Ozone Depletion," M. R. Schoeberl, GSFC.  
18 Mar—"Why Physics Needs the Superconducting Super-Collider," G. L. Kane, University of Michigan.  
25 Mar—"The Supernova of a Lifetime," R. P. Kirshner, Harvard University.  
1 Apr—"Reporting Science," H. Simons, Harvard University.  
8 Apr—"Icosahedral Boron-Rich Solids as Very High Temperature Semiconductors," D. Emin, Sandia National Laboratories.  
15 Apr—"Did the World Begin?" A. Sandage, The Johns Hopkins University/CalTech.  
22 Apr—"Indoor Radon Problem Areas in Maryland and Virginia," D. G. Mose, George Mason University.  
29 Apr—"History of Probability," M. F. Shlesinger, Office of Naval Research.  
6 May—"Courage and Success in Science: Episodes in the Life of H. A. Kramers," M. Dresden, SUNY Stony Brook.  
13 May—"Optical High Resolution Astronomy," H. A. McAlister, Georgia State University.  
20 May—"Three Years of Geosat Results," C. C. Kilgus, APL.  
27 May—"Earthquake Effects on the Earth's Rotation," B. F. Chao, GSFC.