

PUBLICATIONS

Compilation of principal recently published books and technical articles written by APL staff members.

- F. J. Adrian (APL), H. M. Vyas, and J. K. S. Wan (Queen's Univ., Ontario, Canada), "Magnetic Field and Concentration Dependence of CIDNP in Some Quinone Photolyses: Further Evidence for an Overhauser Mechanism," *J. Chem. Phys.* **65**, No. 4, Aug. 15, 1976, 1454-1461.
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- T. P. Armstrong (Univ. of Kansas), S. M. Krimigis (APL), D. Hovestadt (Max-Planck Inst. for Extraterrestrial Physics), B. Klecker (Max-Planck Inst. for Extraterrestrial Physics), and G. Gloeckler (Univ. of Maryland), "Observations of Temporal and Spatial Variations in the Fe/O Charge Composition of the Solar Particle Event of July 4, 1974," *Solar Phys.* **49**, No. 2, Aug. 1976, 395.
- N. A. Blum and C. Feldman, "The Crystallization of Amorphous Germanium Films," *J. Non-Crystalline Solids* **22**, 1976, 29-35.
- J. Bohandy and B. F. Kim, "Optical Spectra of Ni Porphin, Pd Porphin and Free Base Porphin in Single Crystal Triphenylene," *Spectrochimica Acta* **32A**, 1976, 1083-1088.
- N. J. Brown (Univ. of California, Berkeley) and D. M. Silver (APL), "Reactive and Inelastic Scattering of $H_2 + D_2$ Using a London-Type Potential Energy Surface," *J. Chem. Phys.* **65**, No. 1, July 1, 1976, 311-325.
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- R. M. Fristrom and C. Grunfelder, "Moving Wire Technique Studies of Ablation, Ignition and Extinction of Polymer Flames," *Fire and Materials* **1**, 1976, 48-51.
- M. C. Green, "Gain of a Linear Array for Spatially Dependent Signal Coherence," *J. Acoust. Soc. Am.* **60**, No. 1, July 1976, 129-132.
- B. F. Kim, "Low-Angle Light-Scattering Apparatus," *Rev. Sci. Instrum.* **47**, No. 9, Sept. 1976, 1039-1043.
- J. F. Kincaid, "Communications: The Driving Force Behind the Accelerating Rate of Change," *Ann. Clin. Lab. Sci.* **6**, No. 4, July-Aug. 1976, 283-290.
- J. H. Manley, "Embedded Computer Systems—Personnel Development," *Abridged Proceedings from the AIAA Software Management Conference, First Series*, 1976.
- J. H. Manley, "Training Requirements for Defense System Software Managers," *Conference Proceedings: Managing the Development of Weapon System Software*, Air Command and Staff College, Maxwell AFB, AL, 1976.
- R. L. McCally and R. A. Farrell, "The Depth Dependence of Light Scattering from the Normal Rabbit Cornea," *Exp. Eye Res.* **23**, 1976, 69-81.
- J. T. Nolte, A. S. Krieger, A. F. Timothy (American Science and Engineering, Inc.), R. E. Gold, E. C. Roelof (APL), G. Vaiana (Center for Astrophysics), A. J. Lazarus, J. D. Sullivan (Massachusetts Inst. of Technology), and P. S. McIntosh (National Oceanic and Atmospheric Admin.), "Coronal Holes as Sources of Solar Wind," *Solar Phys.* **46**, 1976, 303-322.
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- R. T. Tsunoda and R. I. Presnell (Stanford Research Institute), and T. A. Potemra (APL), "The Spatial Relationship Between the Evening Radar Aurora and Field-Aligned Currents," *J. Geophys. Res.* **81**, No. 22, Aug. 1, 1976, 3791-3802.
- G. W. Turner, H. K. Charles, Jr., and C. Feldman, "Switching in Amorphous Boron Films Under Single-Pulse Conditions," *J. Appl. Phys.* **47**, No. 8, Aug. 1976, 3618-3624.
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ADDRESSES

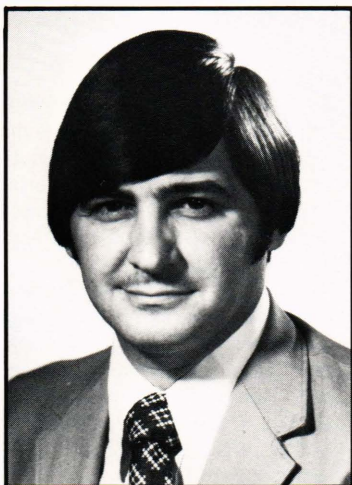
Principal recent addresses made by APL staff members to groups and organizations outside the Laboratory.

- D. G. Henderson and R. E. Gin-gras, "EA-6B Employment in Land Warfare," *Fifth Annual Electronic Warfare Symposium*, NAS, Whidbey Island, WA, July 12-15, 1976.
- A. Kossiakoff, "The Future of Computer Simulation," *1976 Summer Computer Simulation Conference*, Washington, DC, July 12-14, 1976.
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- J. H. Manley, "Will There Be Analysts and Programmers in 1985?," *AIIE Conference on Software: Technology-Development-Procurement-Project Management*, Washington, DC, July 19-21, 1976.
- F. F. Mobley, A. C. Sadilek, C. J. Gundersdorf, and D. Speranza, "A New Thermistor Chain for Underwater Temperature Measurement," *Oceans 76 Conference*, Washington, DC, September 13-15, 1976.
- L. Monchick, "Transport Properties of Anisotropic Forces," *Gordon Conference on Atomic and Molecular Interactions*, Wolfeboro, NH, August 9-13, 1976.
- D. E. Olsen, "On the Barlow-Scheuer Reliability Growth Estimation Scheme," *136th Annual Meeting of the American Statistical Association*, Boston, MA, August 26, 1976.
- D. W. Rabenhorst, "Modern Flywheel Technology," *First European Symposium on Energy Storage with Flywheels*, Thielle, Switzerland, September 14-15, 1976.
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- D. G. Sager, "JE53 User Experiences," *SHARE*, Montreal, Canada, August 19, 1976.
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PATENTS

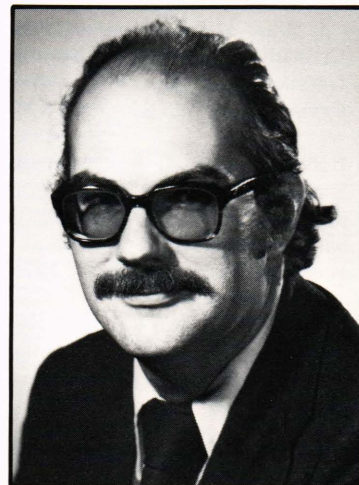
- A. G. Bates, T. L. McGovern—*Time and Frequency Control Unit*, No. 3,974,457.
- E. E. Hackman—*Focused Blast-Fragment Warhead*, No. 3,978,796.
- D. W. Rabenhorst—*Convolutd Rotor Structures*, No. 3,982,447.

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