

## WRITING AWARDS

The prompt, effective publication of its discoveries and insights is one of the principal attributes of a productive R&D establishment. Circumscribed as this process may be nowadays by security restrictions, by proprietary considerations, and by limits set on the export of defense-related technologies of both hardware and concepts, progress in the basic and applied sciences would shrivel if the traditional free trade in ideas were curtailed. An unimpeded flow of information not only benefits the recipient but also gives stature and credit to the creators and to the institution that provides the support.

Writing a good report is hard work. Few authors approach it with happy anticipation because it requires much discipline to transform refractory data into believable results, to convert shadowy concepts into robust theories, and to extract from a welter of fractious "facts" the few nuggets of valuable discoveries.

To encourage this endeavor, APL management asked the Editorial Board of the *Johns Hopkins APL Technical Digest* to seek out, annually, outstanding publications that could be pointed to as models and that have added to the reputation of APL. The Editorial Board's assignment was to find such examples in each of five categories:

- I. Papers by authors who had not previously published in technical journals;
- II. Papers published in the *Johns Hopkins APL Technical Digest*;
- III. Articles published in unclassified refereed journals or proceedings;
- IV. Articles in classified publications with limited distribution;
- V. Contributions in the form of books and articles written for general, but technically sophisticated, audiences.

Another category was added subsequently, to wit, an award for producing an unusual assemblage of distinguished publications during a professional career at APL.

The selection process was simple. The heads of the APL technical departments were asked to submit two nominations in each category from among 260 eligible articles published during 1985. The Editorial Board, in turn, submitted additional candidates. Forty-five submissions in all were evaluated; 14 were recommended for awards and certificates of commendation.

Awards Recognizing Publications by APL Staff Members (and coauthors), 1985	
<i>Category I</i>	<i>Outstanding First Published Paper</i>
Publication Award:	
David W. Jourdan	"Doppler Sonar Navigation Error Propagation and Correction," <i>Navigation</i> <b>32</b> , 29-56 (1985)
<i>Category II</i>	<i>Outstanding Paper in the Johns Hopkins APL Technical Digest</i>
Publication Awards:	
Robert N. McDonough Barry E. Raff Joyce L. Kerr	"Image Formation from Spaceborne Synthetic Aperture Radar Signals," <i>Johns Hopkins APL Technical Digest</i> <b>6</b> , 300-312 (1985)
John R. Apel Donald R. Thompson David G. Tilley Peter Van Dyke*	"Hydrodynamics and Radar Signatures of Internal Solitons in the Andaman Sea," <i>Johns Hopkins APL Technical Digest</i> <b>6</b> , 330-337 (1985)
Honorable Mentions:	
Harold E. Gilreath	"APL's Independent Research and Development Thrust in Oceanography," <i>Johns Hopkins APL Technical Digest</i> <b>6</b> , 276-283 (1985)



William McCloskey "Chesapeake Bay Research Institutions: A Bay-Wide Presence," *Johns Hopkins APL Technical Digest* **6**, 369-384 (1985)

*Category III*

*Outstanding Paper in an Unclassified Refereed Journal or Proceedings*

Publication Awards:

David P. Vasholz "Dye Dispersion in the Seasonal Thermocline," *Journal of Physical Oceanography* **15**, 694-712 (1985)  
Larry J. Crawford

John R. Apel "The Sulu Sea Internal Wave Experiment," *Journal of Physical Oceanography* **15**, 1625-1651 (1985)

James R. Holbrook\*  
Anthony K. Liu\*  
John J. Tsai\*

Honorable Mentions:

Edmond C. Roelof "Energetic Neutral Atoms (E ~ 50 keV) from the Ring Current: IMP 7/8 and ISEE 1," *Journal of Geophysical Research* **90**, 10991-11008 (1985)  
Donald G. Mitchell  
Donald J. Williams

Richard A. Meyer "Coupling of Action Potential Activity Between Unmyelinated Fibers in the Peripheral Nerve of Monkey," *Science* **227**, 184-187 (1985)  
Srinivasa N. Raja\*  
James N. Campbell\*

Henry A. Kues "Effects of 2.45 GHz Microwaves on Primate Corneal Endothelium," *Bioelectromagnetics* **6**, 177-188 (1985)  
Lawrence W. Hirst\*  
Gerard A. Luty\*  
Salvatore A. D'Anna\*  
Gregory R. Dunkelberger\*

*Category IV*

*Outstanding Paper in a Classified Refereed Journal or Proceedings*

Publication Award:

Mark J. Mayr "Characterizing the Noise-Limited Operation of a Visible Scene-Matching Correlator," in *Proceedings, IRIS Imaging Conference*, pp. 81-106 (1985)  
Scott A. Gearhart  
Linda M. Howser

*Category V*

*Special Publications Award*

Publication Award:

James R. Kuttler "Estimating Eigenvalues with a priori/a posteriori Inequalities," in *Research Notes in Mathematics*, Pitman Advanced Publishing Program, 155 pp. (1985)  
Vincent G. Sigillito

Honorable Mention:

Louis J. Lanzerotti\* "Comparative Magnetospheres," *Physics Today*, 2-11 (November 1985)  
Stamatios M. Krimigis

*Special Category*

*Award for Distinguished Scientific Publications*

Publication Award:

Robert R. Newton

\*Not APL staff member