

Clearly, this is self-defeating since, the higher the price, the fewer subscribers and vice versa. What is needed here is a bold change to hold and, if possible, to reduce the cost. In this regard the use of Synoptics in place of many papers should have the effect of first clearing our backlog and then reducing the number of pages and thus the printing cost. However, additional steps seemed to be warranted and were recommended by the AIAA Publications Committee. Under the chairmanship of Julius Lukasiewicz, an economic subcommittee of the Publications Committee made a comprehensive study of our printing costs. The single and largest cost item which could be removed is the cost of typesetting, which is particularly expensive because of the many mathematical expressions. If we were to eliminate this one item by using author-prepared manuscripts, then the savings to the entire AIAA scientific publications program would range from \$50,000-200,000 per year, or up to 30% of the total AIAA scientific publications budget. This savings will permit a reduction in page charges from \$75 to \$60 per page and hopefully in 1972 subscription rates as well.

There is a further technical advantage in author-prepared manuscripts: the author is in complete control of preparation of his manuscript at all times, which will help prevent errors that sometimes occur between galley corrections and printing. Finally, the use of author-prepared manuscripts should eliminate the complete retyping of preprints from single space to double space. The rules for preprints and author-prepared manuscripts will be sufficiently similar to permit the latter to be prepared by corrections to the former, when extensive technical corrections are not required.

We are, of course, concerned about the over-all appearance of the Journals, so this step was not taken lightly; but our main concern is maintaining the Journals for their archival value, and this must be judged in terms of their enduring value because of content, and *not* because of appearance.

Selective Dissemination of Documents

The original concept of SDD was to provide members, instead of a full journal each month, with only those papers in which they had registered an interest; in other words, a "personalized" journal. This was studied briefly a few years ago by the Publications Committee. The main conclusion was that SDD seemed to be a further improvement in member services, but it appeared that a further funded study was

required in order to arrive at the optimum mechanization of the systems *and its costs*. Such a study was proposed by the AIAA to the National Science Foundation, which ultimately decided against the study for financial reasons.

The real impediment for SDD is really quite simple: There is no mechanical machine in existence which is capable of taking, say, 100 stacks of different papers (each of which will have three different category designations out of 140 designations); and 35,000 membership names, each of whom may have requests against one or more of the 140 designations; selecting those papers for each subscriber without duplication; inserting them into an envelope; and addressing the envelope. Since no such machine exists, it is difficult to demonstrate either that the system is feasible or to cost it. There are a number of alternatives, however, and, since the *system* really does not appear to be very difficult either to design or implement, it should be a good challenge to our readers. A limited system study is now under way, funded by the AIAA at a minimal level, and is expected to be complete in 1971.

Appreciations

Once again, it is my privilege to extend the warmest appreciation, on behalf of the readers and authors of this Journal, to our retiring associate editors, Harold Mirels, Robert Vaglio-Laurin, M. J. Turner, and George H. Markstein. Their tireless efforts have helped improve the Journal immensely. We thank each with greatest sincerity. I wish also to welcome our newly appointed associate editors, Mitchell H. Bertram, Stephen C. Maslen, Fred E. C. Culick, and Earl H. Dowell, and hope that they will find their association equally rewarding. Richard H. Battin has graciously agreed to serve for another term. It also is my privilege to express our appreciation to the many reviewers, listed below, whose assistance has helped to maintain our standards of quality.

We also wish to acknowledge the enduring effort of Anne Huth, who kept the papers moving smoothly for all the journals, and of Ruth Bryans who, among her many other duties, also assembled the cost comparisons which led to the decisions of the Publications Committee. Finally, the able assistance of Mrs. Irene Scanzillo was greatly appreciated for the efficient operation at my end of the line.

George W. Sutton
Editor-in-Chief

Reviewers for AIAA JOURNAL, October 1, 1969-September 30, 1970*

Abramson, H. Norman	Bailey, A. B.	Bohachevsky, I. O.	Caughey, T. K.	Clifton, Rodney J.	Cunningham, Herbert J.
Achenbach, Jan D.	Ban, Stephen D.	Bonnell, John M.	Cebeci, Tuncer	Cline, Philip B.	Curle, Gregory S. N.
Adams, John C.	Barba, Peter	Boylan, D. E.	Chaiken, R. F.	Clough, Ray W.	Curtis, Richard
Adelberg, Marvin	Baron, Judson R.	Bradshaw, Peter	Chambers, A. C.	Cochran, Robert A.	Danby, J. M. A.
Adler, Barry K.	Bartlett, Charles J.	Breakwell, J. V.	Chang, Paul	Cogley, A. C.	Danielson, Donald A.
Alfriend, K. T.	Bastress, E. Karl	Brederlow, Gunter	Chang, Y. P.	Cohen, Gerald A.	Davis, Randall T.
Allario, Frank	Baum, Eric	Bristow, M.	Chao, Chi Chang	Cohen, Norman S.	de Baer, P. C. T.
Almroth, B. O.	Beckstead, M. W.	Broadwell, James E.	Chapkin, Robert L.	Cole, Julian D.	DeBra, Daniel
Amazigo, John C.	Beckwith, Ivan E.	Brockett, R. W.	Chapman, Gary T.	Cole, Richard B.	deDoes, Dick H.
Amick, J. L.	Benfield, W. A.	Broding, William C.	Charwat, Andrew F.	Coles, D. E.	Deissler, Robert G.
Anand, D. K.	Berger, Stanley A.	Brook, John W.	Chen, Chuan Fang	Collins, D. J.	Demetriades, Anthony
Anderson, John D., Jr.	Berman, Alex	Brooks, Melvin	Cheng, Hsien K.	Compton, Dale L.	Denery, Dallas G.
Andres, R. P.	Bernhart, Walter D.	Brown, R. T.	Cheng, S. I.	Cooke, J. C.	Denison, M. Richard
Apelt, Colin	Bert, Charles W.	Brown, Robert T.	Chien, K. Y.	Cool, Terrance A.	Der, Joseph
Aprahamian, R.	Bertram, M. H.	Broxmeyer, Charles	Chin, J. H.	Cooper, Paul	Devitt, Edmund B.
Archer, John S.	Bienkowski, George	Brush, Don O.	Chinitz, Wallace	Corrsin, Stanley	Devoto, R. S.
Ariaratnam, S. T.	Billig, Fred	Bryson, Arthur E., Jr.	Chorin, A.	Cory, J. S.	Dewey, C. Forbes
Armenakas, Anthony E.	Bird, G. A.	Burns, A. Bruce	Chou, Shun-Chin	Cravalho, Ernest G.	Deyst, John J.
Aroesty, Jerome	Blackburn, Phillip R.	Bush, William B.	Chou, Y. S.	Crawford, F.	Dickinson, Lionel A.
Asfour, Kamal J.	Blair, Bill	Bushnell, David	Chow, Wen-Lung	Cresci, Robert J.	DiCristina, Victor
Ashkenas, Harry I.	Blair-Smith, Hugh	Bushnell, D. M.	Chu, C. K.	Crimi, Peter	Dirling, R. B., Jr.
Ashley, Holt	Blake, Lynn H.	Bussard, Robert W.	Chu, Wen-Hwa	Crouzet-Pascal, Jacques	DiTaranto, Rocco
Ashton, J. E.	Bloom, Martin	Callens, E. E.	Chung, Paul M.	Culbertson, Jack D.	Dix, Donald M.
Azar, Jamal J.	Blottner, F. G.	Callis, Linwood B.	Clark, Edward L.	Culick, Fred E. C.	Dolton, Theodore A.
Babcock, Charles D.	Bogdanoff, J. L.	Card, M. F.	Clausen, William E.	Culp, Robert D.	Donaldson, Coleman duPont
	Bogdonoff, Seymour M.	Carriere, Pierre	Clemens, P. L.		

*Because it is difficult to include the reviewers for October, November, and December 1970 in this issue of the Journal, they will be listed with the reviewers for 1971 in the January 1972 issue.

- Dugundji, John
Dunn, Michael G.
Dwyer, H. A.
Dym, Clive L.
Eckbreth, Alan C.
Economos,
Constantine O.
Edelbaum, Ted
Edelman, Raymond
Edwards, D. K.
Edwards, K. R.
Efron, Len
Ellinwood, John W.
Elliott, David G.
Emery, Ashley
Enkenhus, Kurt R.
Ericsson, Lars E.
Eringen, A. C.
Estabrook, Frank
Eustis, Robert H.
Evan-Iwanowski,
R. M.
Evensen, David A.
Fagin, S. L.
Fannelop, Torstein K.
Faulders, C. R.
Fellippa, Carlos A.
Fendell, Francis E.
Fenn, John B.
Fenter, Felix W.
Fernandez, F.
Fink, Martin R.
Finkleman, David
Finlayson, B. A.
Finston, Morton
Fishman, Norman
Fitch, James R.
Fletcher, Edward A.
Florence, A. L.
Flugge-Lotz, I.
Foerster, Ron E.
Fontijn, Arthur
Forsberg, Kevin
Forward, Robert L.
Fox, Herbert
Fox, Jay
Fox, Richard L.
Foye, R. L.
Fraser, Donald C.
Fraser, W. B.
Frauenthal, James C.
French, J. Barry
Friedman, Raymond
Fromm, J. E.
Frost, Paul
Fulton, Robert E.
Fung, Yuan Cheng
Gal'chen, Tzvi
Gallagher, Richard H.
Gardner, Richard A.
Gartshore, Ian S.
George, Albert R.
Gibson, C. H.
Giesing, Joseph P.
Giles, Gary L.
Glowacki, Walter J.
Gobetz, Frank W.
Gold, Harris
Golik, R. J.
Gooderum, Paul B.
Goodman, Theodore,
R.
Gordon, A. S.
Gourdine, M. C.
Grabousky, Walter
Grafton, Peter E.
Graham, Robert W.
Greenberg, Robert A.
Greene, Bruce E.
Greenstadt, Eugene
Greenwood, Donald T.
Greif, Robert
Griffith, B. J.
- Guderley, G. K.
Gulati, S. T.
Gustafson, Winthrop
A.
Habra, Nadim
Hall, J. Gordon
Hama, Francis R.
Hammit, Andrew G.
Hankey, Wilbur L.,
Jr.
Harrington, Marshall
C.
Hastings, S. M.
Haugen, Ronald Lee
Hazen, David
Head, M. R.
Heidmann, Marcus F.
Hempel, Peter
Hendrix, R. E.
Heppner, James P.
Hernance, Clarke E.
Herring, H. J.
Herrmann, Leonard
R.
Hess, John L.
Hibbitt, H. D.
Hickman, R. S.
Hitzl, Don
Ho, Y. C.
Hochstim, A. R.
Hoffman, Joseph D.
Hoffman, Myron A.
Hoglund, Richard F.
Holden, Michael S.
Horn, Kenneth P.
Horsewood, Jerry L.
Howard, Lee
Hromas, Leslie A.
Huang, N. C.
Hunter, L. G.
Hurty, Walter C.
Hutchinson, John
Hwang, C.
Hyman, Barry I.
Ingebo, Robert D.
Inouye, Mamoru
Isakson, Gabriel
Jackson, William D.
Jacobs, P. W. M.
Jacobson, D. H.
Jahn, Robert G.
Jazvinski, Andrew H.
John, Richard R.
Jones, Norman
Jones, Robert E.
Jones, Robert M.
Julius, Anthony
Kalmns, Arturs
Kamel, Ahmed
Kampinsky, A.
Kane, Thomas R.
Kang, Sang Wook
Karras, Thomas W.
Kaskan, W. E.
Kaufman, Harold
Keefe, R. T.
Kelley, Henry J.
Kemp, Nelson H.
Kempner, Joseph
Kendall, Jim
Kendall, R. M.
Kentzer, C. P.
Kerrebroek, J. L.
Khatchaturian, N.
Khot, N. S.
Kicher, Thomas P.
Kiel, Roger E.
King, Merrill K.
King, William S.
Klein, Stanley
Kliegel, J. R.
Klosner, Jerome
Knaauer, W.
- Koester, J. K.
Kogelschatz, Ulrich
Kovasnay, Leslie S.
Kozin, Frank
Kraus, H.
Krenthe, G.
Kubota, Toshi
Kuhlthau, Alden R.
Kuhn, Gary D.
Kumar, K. S. P.
Kuo, Hsiao-Lan
Kushida, Raymond
Kushner, Harold
Lam, Sau-Hai
Land, R. I.
Lange, Benjamin O.
Lapp, Marshall
Lardner, Thomas J.
Lass, Harry
Laufer, John
Laurmann, J. A.
L'Euey, M. R.
Lee, Bruce
Lee, John D.
Lee, John H.
Lee, Ru-Lin
Leissa, Arthur W.
Leliakov, Igor
LeMay, Joseph
Lengyel, L. L.
Lepore, John A.
Levy, Robert
Lewellen, W. S.
Lewis, John E.
Lewis, J. W. L.
Lezberg, Erwin A.
Li, Ting Yi
Libby, Paul A.
Libove, Charles
Liepins, Atis
Likins, Peter
Lilienthal, P. F.
Lin, C. C.
Lin, Shao-Chi
Lind, Niels C.
Lion, Paul M.
Lissaman, Peter B. S.
Little, Herbert R.
Livingston, F. R.
Lock, Malcolm H.
Long, Robert R.
Lordi, John A.
Love, T. J., Jr.
Lu, Sung Y.
Ludwig, George H.
Lyon, Richard H.
McAlevey, Robert F.,
III
McCauley, William D
McComb, Harvey G.,
Jr.
McCroskey, William
J.
McDonald, Henry
McGregor, Doug
McIntosh, Samuel C.
McIvor, Ivor
McKee, Harris B.
McLaughlin, Dennis
McLaughlin, Philip
V., Jr.
McNally, William D.
Marble, Frank E.
Marcal, Pedro V.
Marchand, E. O.
Margolis, Kenneth
Martellucci, Anthony
Martin, John B.
Marxman, G. A.
Masek, Tommy
Maslen, S. H.
Mason, E. A.
Massier, Paul F.
- Masur, E. F.
Mayer, John
Meditch, James S.
Mehra, Romay K.
Meirovitch, Leonard
Mellor, George L.
Melnik, Robert
Melosh, Robert
Mendelson, Alexander
Mescal, J.
Messiter, Arthur F.
Meyerott, Roland
Michels, Charles
Miele, Angelo
Miller, David R.
Miller, Gabriel
Miller, Ralph E.
Mills, Anthony F.
Minges, Merrill L.
Minovitch, M. A.
Monchick, L.
Moore, Franklin K.
Morawetz, C.
Morduchow, M.
Moretti, Gino
Morkovin, Mark V.
Moses, Fred
Mueller, T. J.
Muntz, E. P.
Murman, Earl M.
Murphy, Charles H.,
Jr.
Murray, D. W.
Murray, James D.
Nachtsheim, Philip R.
Nash, John F.
Nayak, U. S. L.
Nayfeh, A. H.
Nemat-Nasser, S.
Nerem, R. M.
Newhall, Henry K.
Nicholls, J. A.
Norman, W. S.
Northrop, Gaylord
Ober, Carl L.
Oden, John T.
Ojalvo, I. U.
Oliver, David A.
Olson, Carl
Olson, Mervyn D.
Ong, Chung-Chun
Ozisk, M. N.
Page, Robert H.
Paiewonsky, Bernard
Pallone, Adrian J.
Panton, Ronald L.
Park, Chul
Patel, Sharad A.
Paul, Burton
Perko, L. M.
Perrone, Nicholas
Peskin, Richard L.
Peters, Carol E.
Peterson, E. W.
Peterson, J. P.
Pettus, Joseph J.
Petty, James S.
Pfyl, Frank
Phillips, O. M.
Pian, Theodore H. H.
Pines, Samuel
Pipkin, A. C.
Pister, Karl
Pittman, Charles, Jr.
Platou, Anders S.
Platus, Daniel H.
Polhamus, Edward C.
Price, Donald A., Jr.
Price, Edward W.
Priem, Richard J.
Prussing, John E.
Przemieniecki, J. S.
Przibbel, C. E. G.
- Rainbird, W. J.
Rauch, Herbert E.
Reardon, Frederick
Reeves, B. L.
Rehfield, Lawrence W.
Reichenbach, R. E.
Reinecke, W. G.
Reismann, Herbert
Reiss, E. L.
Reynolds, Stephen M.
Rhodes, Robert P.,
Jr.
Ribner, H. S.
Ring, Leon E.
Robbins, Howard M.
Roberson, Robert E.
Roberts, B. W.
Robinson, John
Rogers, Charles E.
Rogers, David
Rosa, R. J.
Rossettos, John N.
Rott, Nicholas
Rubin, S. G.
Runyan, Harry L., Jr.
Saad, Michel A.
Sajben, Miklos
Sandborn, Virgil A.
Sanders, J. L., Jr.
Sato, Hiroshi
Sawyer, R. F.
Schetz, Joseph A.
Schiff, L. B.
Schmidt, Stanley F.
Schmit, Lucien A., Jr.
Schneiderman, A. M.
Sciarras, J. J.
Scott, John E.
Scul, John
Sears, W. R.
Seban, R. A.
Seemann, Gerald R.
Seide, Paul
Seltzer, S. M.
Shepard, C. E.
Sherman, Frederick
S.
Shinozuka, M.
Shu, Larry S.
Sibulkin, M.
Siehel, Martin
Simitses, George
Sinclair, Peter C.
Siscoe, George L.
Skiftstad, James G.
Slattery, Richard E.
Slutsky, Simon
Small, H. W.
Smith, A. M.
Smith, A. M. O.
Smith, Bert L.
Smith, G. Louis
Smith, Preston
Soehngen, Erich E.
Soloman, Louis P.
Sonin, A. A.
Sonju, Otto Kristan
Soo, S. L.
Soong, T. C.
Spaid, Frank W.
Spalding, D. B.
Spreiter, J.
Squire, William
Stalker, R. J.
Stearman, Ronald O.
Steele, C. R.
Stein, Manuel
Stephens, Wendell
Stern, Robert G.
Sterrett, James R.
Stevenson, T. Neil
Stewartson, Keith
Stollery, J. L.
- Strehlow, Roger A.
Strickler, R. L.
Stricklin, James A.
Strome, Donald R.
Stroud, Richard C.
Sullivan, Robert J.
Sutton, Emmett A.
Swedlow, J. L.
Symonds, Paul S.
Talbot, Lawrence
Tam, C. K. W.
Taichert, Theodore R.
Taylor, R.
Tempelmeyer, K. E.
Tennekes, H.
Tennyson, R. C.
Tetervin, Neal
Thomas, Mitchell
Thomas, P. D.
Tien, C. L.
T'ien, J. S.
Ting, Lu
Todd, James P.
Tong, Pin
Traugott, Stephen C.
Trubert, Marc R. P.
Tsai, Stephen
Uberoi, Mahinder S.
Useton, J. C.
Vafakos, William P.
Vander Velde, Wallace
E.
Van Driest, E. R.
Van Dyke, Milton
Vas, Irwin E.
Vaughn, Harold R.
Vidal, Robert J.
Viegas, John R.
Vinh, N. X.
Viskanta, Raymond
Walchner, Otto
Wan, Frederic Y. M.
Ward, L. K.
Warren, W. E.
Watson, Velvin R.
Wegener, Peter P.
Weger, Eric
Weinbaum, Sheldon
Weiss, Robert F.
Wendt, John F.
Werle, Michael J.
Whinnery, J. R.
Widnall, Sheila
Widnall, William S.
Wiebelt, J. A.
Williams, F. A.
Williams, J. C., III
Williams, W. D.
Willman, Alexander
O.
Willoughby, Paul G.
Wilson, Kenneth H.
Winfield, David H.
Winn, Byron
Winter, Robert
Witmer, Emmett A.
Wolf, Henry
Wong, Howard
Wu, Theodore Y.
Wu, Ying-Chu Lin
Wurster, Walter
Wynanski, I. J.
Yeh, G. C.
Yoshihara, Hideo
Yoshikawa, Kenneth
K.
Yu, Yi-Yuan
Zakkay, Victor
Zampaglione, V.
Zeiberg, Seymour L.
Zinn, Ben T.
Zukoski, Edward E.