

1980 — Time for Re-examination and Strengthening

AS I reflect on the completion of our second full year of publication I find many of the issues under consideration are similar to what they were a year ago. Perhaps our activity is coming out of its starting transient and is entering steady state. I suspect, however, that we are still a year or more from that (for the Editors) desired state. More likely, the explanation for my observation is that we are dealing with a system which is characterized by long time constants (authors must perform the work and write the papers) and transport lags (our reviewing, acceptance, and publication procedures). Authors will be happy to learn that we have made some progress toward reducing the "dead time" in the latter process by the method of making more frequent measurements of the state of each paper and taking "control action" in problem cases. I do not foresee much change in the time constants associated with the author's part of the process since, like most physical systems, the inherent characteristics cannot be changed. What is addressable, however, are the number and types of papers we receive. It is in this area that the issues have not changed significantly in the last year.

Principal among these issues is that of the applications paper. We remain dedicated to increasing the number and types of papers we publish which deal with real systems development, actual hardware, test results, and other similar attributes which connote the realization of fully developed and tested ideas. I solicit those of you in the industrial sector to publish your achievements. Your job advancement is not as tied to this outlet as your university colleagues, but I believe you, our profession, and our society can benefit from your making available the results of your work. With your results available, others can build upon your efforts and thus perform more efficiently. The reverse will be true for you when you read their work. The university sector, where basic research is commonplace, will have a better understanding of realistic problems and objectives and can direct their efforts accordingly. All this works, however, only if all segments participate.

In recognition of the need for a catalyst to assist in the process of procuring more applications papers we formed, a year ago, an Applications Advisory Board for the *Journal of Guidance and Control*. The Board is beginning to be effective in bringing a few of these papers into the system. Despite our long time constants, several of them have already been published. This year we are broadening this Board with the addition of a member to represent the Avionics community. The new member is Dr. John Ruth of the General Dynamics Corp., in Fort Worth, Texas.

We also are planning to augment this type of activity to include volunteers who will coordinate special issues on various practical subjects of current interest. Several are already in progress. The current plan is to publish a survey paper in each of these topical issues followed by three or four applications oriented papers. It would be helpful to us in planning this new activity to receive suggestions from our readers of topics that they would like to have covered in this fashion. I encourage you to write to me with such suggestions.

Another issue which is still of interest to some of our subscribers is the question of the title of the *Journal of Guidance and Control*. Those whose principal interest is in the area of dynamics would have preferred the title *Journal of Dynamics and Control*. A few of these people have, in the past two years, repeatedly asked whether the name could be changed now to either that title or the *Journal of Dynamics, Guidance, and Control*. Those who support such a change as well as those who oppose it should write to me and let me know their positions and reasoning. If sufficient interest is

expressed one way or the other the issue can then be taken to the AIAA Publications Committee for resolution. Meanwhile, let me repeat my observation that the journal title is not as important as its content. Many of you in the dynamics community have been supporting this publication. Your continued support through your submittals is the key to making this journal, no matter what its name, the type of archival outlet you wish it to be.

Potentially of more significance to AIAA journal users than these local issues are the new initiatives which could result from the overall review of the Society being led by AIAA President, Dr. George Mueller. Possible complete changes in the organization of AIAA are being debated. Some variations would divide the dynamics, guidance, and control community into several parent organizations and others would clearly concentrate this group into one entity. On one extreme there exists the possibility of an entirely different set of journals. On the more conservative end of the spectrum only improvements to the existing system will be implemented. A reordering of Institute priorities is possible under any of the many scenarios. If you have any thoughts, suggestions, or criticisms which would assist in this ambitious undertaking, you should make them known *now* to the Chairmen of any of the new initiative task force committees, George Mueller, or any of your other elected officers.

Another sign that the *Journal of Guidance and Control* is reaching steady state is that we have retiring Associate Editors. This year Prof. D. L. Mingori is leaving us after two years with the *Journal of Guidance and Control* and a year in the same capacity with the *Journal of Spacecraft and Rockets*. I have enjoyed working with him on both these journals and will miss his personal involvement with our publication. He has always provided a careful, cautious, and professional analysis of all his manuscripts. I wish him the best for his future activities.

I am pleased to name, as Prof. Mingori's replacement, Dr. Kyle T. Alfriend of the Naval Research Laboratory in Washington, D.C. Dr. Alfriend is the Head of the Advanced Systems Branch at that Laboratory and is known for his work in attitude dynamics and control, celestial mechanics, and controls. He will be handling papers on spacecraft dynamics and control as well as structural dynamics. I welcome him to the masthead.

Unfortunately, this year also marks the retirement of one of AIAA's most valuable New York staff members—Miss Ruth Bryans, the Administrator of Scientific Publications. She will be retiring from her responsibilities in this position but, luckily for us, will work part time to support the AIAA 50th Anniversary Celebration and the Progress Series. The difficult role of Ruth's successor goes to Mrs. Norma Brennan.

Norma first joined the AIAA in 1961. She began as an editorial assistant on the *ARS Journal* and later, under Ruth, became Assistant Managing Editor of all AIAA journals. She left AIAA in 1965 to raise a family and returned full-time in 1978 as Managing Editor of the *Progress in Astronautics and Aeronautics* series. During the intervening years, however, she did much of the copy editing for both the *Progress Series* and the journals on a freelance basis. She has a thorough knowledge of all phases of the work of the Editorial Department and is well qualified for her new position. Although she will find Ruth's footsteps hard to follow I am sure that she will, and look forward to working more closely with her.

Ruth has served the AIAA since 1962 when she joined the staff of one of our predecessor societies, the American Rocket Society. She is a professional of outstanding experience and

qualifications in scientific publications, having spent a career which spans more than 40 years dedicated to this type of activity—first with the American Society of Civil Engineers, then with the American Institute of Physics, and finally with us. I have worked with Ruth for the last ten years that I have been closely involved with AIAA publications. I, like every colleague I have met who has been involved in AIAA publications, have gathered a considerable respect for her ability. She has been a pleasure to work with and I will miss her. She is not only an expert in her field, but she understands well the needs and desires of the membership. When we Editors or the Publications Committee have asked Ruth or her organization to carry out a task, we have always been able to count on the fact that not only the letter but the spirit of our intentions would be carried out on time, with no mistakes.

For those of us who attempt to handle substantial AIAA responsibilities while simultaneously fulfilling our obligations to full-time employers she has been superb. Without her directing the New York operation we would have found it necessary to invest far more time in our volunteer activity. The AIAA will not be the same without her.

In closing I need also to express my appreciation to one more group of people—our reviewers. A list of this past year's volunteers follows. Their collective effort represents a massive investment in the quality of this publication. Without them the system would not work and I thank them for their time.

Donald C. Fraser
Editor-in-Chief

Reviewers for *Journal of Guidance and Control*, September 1, 1978-August 31, 1979*

Adams, James	Cunningham, David C.	Hoak, Donald E.	McNamara, John S.	Schmitendorf, W. E.
Adornato, Rudolph	Dahlem, Valentine	Hughes, Peter C.	McReynolds, Stephen R.	Schneider, Chris
Aggarwal, R. K.	Davis, Robert P.	Hull, David G.	Madden, Stephen	Scull, John
Alfriend, K. T.	Davison, E. J.	Huston, Ronald L.	Martorella, Romeo P.	Seltzer, S. M.
Allen, Ross	DeBra, Daniel B.	Iliff, Kenneth W.	Matthews, Roger	Siegel, Joseph
Anderson, Gerald M.	Deprit, Andre A. M.	Iwens, Ralph	Matuszewski, J. P.	Skelton, Robert E.
Aubrun, Jean N.	Desai, Mukund N.	Jazwinski, Andrew H.	Maybeck, Peter S.	Smyth, Richard K.
Bach, Ralph E.	Didaleusky, Dennis	Jerkovsky, William	Meirovitch, Leonard	Sonnabend, D.
Bainum, Peter M.	Drewry, Joseph W.	Joenger, C. D.	Merrick, Vernon	Spencer, Thomas M.
Balas, Mark	Dydyk, Michael	Joshi, Suresh M.	Mettler, Edward	Spriggs, John H.
Bankovskis, John	Elliott, Jarrell R.	Juang, Jer-Nan	Metzer, Stuart	Sridhar, B.
Barton, David K.	Eng, F. W.	Junkins, John L.	Miller, L. Earl	Stallford, Harold
Benhabib, R. S.	Englar, Thomas S. Jr.	Kain, James E.	Milo, Virginia	Stapleford, R. L.
Bierman, Gerald J.	Farquhar, Robert W.	Kane, Thomas R.	Modi, V. J.	Stein, Gunter
Blanton, Jeffery N.	Farrenkopf, Robert	Kaplan, Marshall H.	Mook, Dean T.	Stengel, Robert F.
Bond, Vincent R.	Ferman, Marty A.	Karnopp, Dean	Morse, A. Stephen	Stubberud, A. R.
Bowser, D. K.	Fiske, Philip	Kaufmann, Bernard	Moyer, H. Gardner	Stuiver, William
Brand, Tim	Fleischer, Gerald E.	Keller, Jack	Murphy, Charles H.	Szalai, Kenneth
Breakwell, John V.	Fowler, Wallace T.	Kelley, Henry J.	Nacozy, Paul	Szebehely, V. G.
Broucke, Roger	Frisch, Harold P.	Kisslinger, Robert L.	Nelson, Richard B.	Tao, Y.
Brown, Robert C.	Fuchs, Ronald P.	Kleinman, David L.	Nesline, F. W.	Tseng, Gan-Tai
Brunner, Gary	Gai, Eli	Klemes, Martin S.	Noll, Thomas E.	VanderVelde, Wallace
Brusch, Richard G.	Gallagher, Joseph T.	Klinger, Dave	Odell, Patrick L.	Velman, J. R.
Bryant, Wayne H.	Garg, S.	Konar, Ferit	O'Halloran, William F. Jr.	Vetter, W. J.
Bryson, Arthur E. Jr.	George, Frank	Korn, Jonathan	Ohtakay, Hiroshi	Vigneron, F. R.
Buckley, Charlie	Gershwin, Stan	Kraemer, John	Oz, Hayrani	Vinh, N. X.
Burns, Robert	Gibson, James	Kriegsman, Bernard A.	Poelaert, Daniel H. L.	Vinti, John P.
Calico, Robert A. Jr.	Ginter, S. D.	Kurylowich, George	Pope, Rhall E.	Waites, Henry
Calise, Tony	Gismondi, T. P.	Lastman, Gary	Powers, William F.	Waymeyer, Walter K.
Callahan, Joseph	Glasson, Douglas P.	Levinson, D. A.	Rayhawk, Steve	Well, Klaus H.
Carlson, Neal A.	Grunner, Larry	Levinson, Emanuel	Regan, Frank J.	Whitaker, H. Philip
Chen, Jay C.	Gupta, Narendra K.	Levison, William H.	Reid, Gary	Whitbeck, Richard
Cheng, James	Gustafson, Donald	Likins, Peter W.	Reising, John	Whyte, Robert H.
Chow, Edward	Hall, W. Earl Jr.	Lin, Y. H.	Roberson, Robert E.	Widnall, William S.
Christensen, E. J.	Hart, John E.	Lochrie, William D.	Robinson, Alfred C.	Williamson, Walton E.
Cochran, John E. Jr.	Hartmann, Gary	Long, Anne C.	Rodden, John J.	Wilson, George W.
Coffman, Vance D.	Hathaway, Wayne H.	Longman, Richard W.	Rodriguez, Guillermo	Woodcock, Robert J.
Connors, Joseph L.	Hegg, Daniel R.	Lorell, Kenneth	Rolston, Dave	Wykes, John H.
Cooley, Dale	Hellmann, Gary K.	Ly, Uy-Lui	Russak, Sidney	Yocum, John
Cronin, Donald	Hitzl, Don	Lyons, Michael	Sackett, Lester L.	Yost, D. J.
Croopnik, Steven R.	Ho, Y. C.	McDonnell, John D.	Schaechter, David	

*Because it is difficult to include the reviewers from September, October, November, and December 1979 in this issue of the Journal, they will be listed with the reviewers for 1980, in the January 1981 issue.