

Announcements and Acknowledgments

Summary

THIS editorial announces policy changes, reports on editorial personnel changes, reports on progress concerning the planned special Centennial of Flight issue of the journal, and acknowledges service to the journal.

Length Limitations

The *AIAA Journal* is continuing its policy, begun three years ago, of no length limitations for full-length papers. Thus, longer papers can be accommodated, although all manuscripts should be as *brief and concise* as proper presentation of ideas will allow. Length limitations on Technical Notes (maximum of nine double-spaced manuscript pages) and Readers' Forum items (maximum of four double-spaced manuscript pages) continue, however, in keeping with the intent of these publishing vehicles for prompt disclosure of information having a relatively limited scope. The detailed requirements for all types of manuscripts can be found in the **Information for Contributors to Journals of the AIAA**, which appears on the inside back cover of each issue of the journal.

Scope

The statement of scope of the *AIAA Journal* appears on the inside front cover of each issue. The topics within our scope include aerodynamics, aerodynamics, combustion, fundamentals of propulsion, fluid mechanics and reacting flows, fundamental aspects of the aerospace environment, hydrodynamics, lasers and associated phenomena, optimization, plasmas, research instrumentation and facilities, structural mechanics and materials, thermomechanics, and thermochemistry. Papers also are sought that review, in an intensive manner, the results of recent research developments in any of the topics listed. Every effort is made to accommodate the decision of authors that the *AIAA Journal* is the most appropriate journal for their manuscripts. Manuscripts that depart excessively from the scope of the journal, however, are returned to authors along with suggestions of more appropriate alternative journals for submission.

Suggested Reviewers and Associate Editors

To assist the review process, authors are asked to include the names and addresses of five (5) suggested reviewers for their manuscript in the covering correspondence for submitted manuscripts. It also is helpful for authors to suggest Associate Editors (AEs) for their submission; such requests are honored whenever possible. To help authors suggest potential AEs, brief biographical sketches providing the background of all currently active AEs are published in the January issue of the journal each year. The AE handling each published paper is also noted at the end of each paper in order to help indicate the types of papers that particular AEs are handling.

Reappointed Associate Editor

Eli Levine, University of Washington, has agreed to serve another term as an Associate Editor. His past service and his willingness to continue to serve in order to help maintain the editorial continuity of the journal is very much appreciated.

Newly Appointed Associate Editors

I am very pleased to announce the appointment of five new Associate Editors, as follows: Werner J. A. Dahm, University of Michigan; Kozo Fujii, Institute of Space and Astronautical Science, Japan; Ann R. Karagozian, University of California, Los Angeles; Shankar Mahalingam, University of California, Riverside; and Bhavani V. Sankar, University of Florida. The willingness of these individuals to help carry out the editorial duties of the journal is very much appreciated.

Continuing Associate Editors

Individuals who are continuing their service as Associate Editors for the coming year are as follows: Suresh K. Aggarwal,

University of Illinois at Chicago; Mehdi Ahmadian, Virginia Polytechnic Institute and State University; Hafiz M. Atassi, University of Notre Dame; Josette R. Bellan, Jet Propulsion Laboratory; Alex Berman, Bloomfield, Connecticut; Aditi Chattopadhyay, Arizona State University; William J. Devenport, Virginia Polytechnic Institute and State University; Kirti N. Ghia, University of Cincinnati; Peyman Givi, University of Pittsburgh; Iskender Gökalp, Université D'Orleans; Jay P. Gore, Purdue University; Eric R. Johnson, Virginia Polytechnic Institute and State University; Robert P. Lucht, Purdue University; Achille Messac, Rensselaer Polytechnic Institute; Anthony N. Palazotto, U.S. Air Force Institute of Technology; Christophe Pierre, University of Michigan; Allen Plotkin, San Diego State University; Sunil Saigal, University of South Florida; Kunigal N. Shivakumar, North Carolina A&T State University; Martin Sichel, University of Michigan; and Ronald M. C. So, Hong Kong Polytechnic University. In addition, Pasquale M. Sforza, University of Florida, is continuing to serve as Book Review Editor for the coming year. The past and continuing service of these individuals to the journal is very much appreciated.

Newly Appointed Members of the Editorial Advisory Board

Two new members of the Editorial Advisory Board have been appointed, as follows: Gerard M. Faeth, University of Michigan; and Antony Jameson, Stanford University. The willingness of Professor Jameson to provide editorial guidance to the journal is very much appreciated.

Continuing Members of the Editorial Advisory Board

Individuals who are continuing their service as members of the Editorial Advisory Board are as follows: Satya N. Atluri, University of California, Irvine; Dennis M. Bushnell, NASA Langley Research Center; Earl H. Dowell, Duke University; Edward M. Greitzer, Massachusetts Institute of Technology; Robert G. Loewy, Georgia Institute of Technology; Simon Ostrach, Case Western Reserve University; Eli Reshotko, Case Western Reserve University; Anatol Roshko, California Institute of Technology; George W. Springer, Stanford University; Byron D. Tapley, University of Texas; Raymond Viskanta, Purdue University; Forman A. Williams, University of California, San Diego; and Israel J. Wygnanski, University of Arizona. The continued willingness of these individuals to provide editorial guidance to the journal is very much appreciated.

Special Centennial of Flight Issue

To commemorate the remarkable achievement of the first flight of the Wright brothers on 17 December 1903, a special issue of the *AIAA Journal* will be published in 2003 containing unusually significant papers that have appeared in the *AIAA Journal* and its predecessors (*Journal of Aeronautical Sciences*, *Journal of Aerospace Sciences*, *ARS Journal*, *ARS Bulletin*, *Astronautics*, *Journal of the American Rocket Society*, and *Jet Propulsion*). These papers have been selected by the Editorial Board (Associate Editors and Members of the Editorial Advisory Board) from the roughly 150 papers nominated for publication in the special issue by the members of the AIAA.

Acknowledgments

The editorial staff of the AIAA deserve special mention for effectively dealing with the publication problems of a widely circulated monthly journal, as follows: Roger L. Simpson, Virginia Polytechnic Institute and State University (Vice President-Publications); Norma Brennan, AIAA (Director of Publications); and Luke McCabe, AIAA (Managing Editor, *AIAA Journal*). Special thanks are due to our retiring Associate Editors, as follows: Promode R. Bandyopadhyay, Office of Naval Research, with seven years of service to the journal; and Anthony M. Waas, University of Michigan, with eight years of service to the journal. Thanks are also due to Robert W. MacCormack, Stanford University, who is retiring as

member of the Editorial Advisory Board of the journal; his service in providing editorial guidance to the journal is very much appreciated. In addition, we all owe a debt of gratitude to the individuals who reviewed papers for the journal this year; a list of their names follows.

Finally, December 2002 marks the end of my appointment as the Editor-in-Chief of the *AIAA Journal*; thus, I would like to express

my personal thanks to the management, staff and members of the American Institute of Aeronautics and Astronautics for their cooperation and support during my six-year association with the journal.

G. M. Faeth
Past Editor-in-Chief

A Thank You and a New Beginning

BEGINNING with this first issue of the *AIAA Journal* for 2003, there is a new Editor-in-Chief, Dr. Elaine S. Oran. Dr. Oran, an AIAA Fellow, is Senior Scientist for Reactive Flow Physics at the Naval Research Laboratory. She is the sixth Editor-in-Chief selected to serve the *AIAA Journal* since its inception in 1963. Beginning with Volume 1, Number 1, Dr. Oran's predecessors were William R. Sears of the Institute of Aerospace Sciences and Martin Summerfield of the American Rocket Society (coeditors of the first three issues of the new *AIAA Journal*), Leo Steg, George W. Sutton, and now Gerard M. Faeth. On behalf of the entire AIAA, I would like to thank Jerry for his six years of service as Editor-in-Chief and for his dedication to high standards for all aspects of the *AIAA Journal*. There is no aerospace journal held in higher esteem than the *AIAA Journal*.

Elaine Oran is not new to AIAA Publication activities. She is a former AIAA Vice-President-Publications and has served the

Publications Committee with dedication for many years. She, too, is a person with high standards for her own publications and the journals that she has served. Elaine served as an Associate Editor for the *Journal of Computational Physics* from 1990 to 2000, has been Managing Editor for *Shock Waves*, and served on the Advisory Board for *Progress in Energy and Combustion Science*. She will be the first *AIAA Journal* Editor-in-Chief to use the new AIAA Write-Track software for electronic journal administration. The AIAA Board of Directors, the AIAA Publications Committee, and I feel very fortunate that Dr. Oran has agreed to serve this journal as Editor-in-Chief. Her photograph and biographical sketch follow.

Roger L. Simpson
AIAA Vice-President-Publications



ELAINE S. ORAN received an A.B. degree in both Physics and Chemistry from Bryn Mawr College in 1966, an M.Ph. from the Department of Physics at Yale University in 1968, and a Ph.D. from the Department of Engineering and Applied Sciences at Yale University in 1972. She began research in the fields of statistical mechanics and applied mathematics at Yale University. In 1972 she joined the Plasma Physics Division at the Naval Research Laboratory (NRL), where she developed atomic physics models for computing the properties of laser-produced plasmas and the properties of low-density oxygen plasmas. She then expanded her work into the areas of ionospheric physics and then into computational fluid dynamics, specializing in reactive-flow dynamics and combustion. In 1978, she became part of the Laboratory for Computational Physics, where she later started the Center for Reactive Flow and Dynamical Systems. Since 1988, Dr. Oran has held the position of Senior Scientist for Reactive Flow Physics at the NRL. In this capacity, she is responsible for developing, supervising, advising on, and carrying out theoretical and numerical research on the fluid and molecular properties of complex dynamic systems. Current research topics include chemically reactive flows; deflagrations and detonations; computational science and numerical analysis; high-performance computing and parallel architectures; shocks and shock interactions in gas and condensed phases; computational methods for rarefied gas flow; turbulence in reacting and nonreacting flows; numerical solution of constrained second-order wave equations; and biofluidics. Application areas include combustion and propulsion; reentry and microdynamical flows; design of rocket motors; materials engineering; atmospheric physics; and astrophysical phenomena, particularly supernova explosions. Dr. Oran is a Fellow of AIAA, for which she served a term on the Board of Directors in the capacity of Vice President of Publications. She is also a Fellow of the American Physical Society, for which she is a past Chair and founding member of the Division of Computational Physics, past Vice-Chair of the Division of Fluid Dynamics, and former member of the Committee on the Status of Women in Physics. She has recently completed 12 years on the Board of Directors of the Combustion Institute and is now Vice President of the Institute for the Dynamics of Energetic and Reactive Systems. She was the Program Chair of the 25th International Symposium on Combustion in Irvine in 1994, Physics Computing '91 (meeting of the American Physical Society Division of Computational Physics, 1991), and 16th International Colloquium on the Dynamics of Energetic and Reactive Systems in 1997. In 1979, Dr. Oran received the Arthur S. Fleming Award (given yearly to 10 employees of the U.S. Government), the WISE Award in Science (given for achievement in science by Women in Science and Engineering) in 1988, the Oppenheim Prize of the Institute of Dynamics of Energetic and Reactive Systems in 1999 for contributions to the theory of explosions and reactive systems, the Zeldovich Gold Medal of the Combustion Institute in 2000, and the Dryden Distinguished Lectureship in Aerospace Research for 2001–2002 by AIAA. In 2001 she was made Honorary Professor of the University of Wales. In 2002 she was inducted into the Hall of Fame of Women in Technology, International. Dr. Oran has published over 300 hundred technical papers, written many review papers, and coauthored (with Jay P. Boris) the book *Numerical Simulation of Reactive Flow* (Elsevier, 1987; 2nd ed., Cambridge, 2001). She was Associate Editor of the *Journal of Computational Physics* for 10 years and has been Managing Editor of the journal *Shock Waves* and on the advisory board of *Progress in Energy and Combustion Science*. She has lectured extensively in the United States and abroad and presented a number of short courses. In conjunction with faculty from universities in the United States and Europe, she has guided many graduate students, primarily in aerospace engineering but also in physics, astrophysics, and physical chemistry.