

## Announcements, Comments, and Acknowledgments

**T**HIS year has gone relatively smoothly for the *AIAA Journal*. Continual modifications to WriteTrack have made this electronic system of handling manuscripts more and more robust. The AIAA Editorial Staff and WriteTrack developers continue to do a truly remarkable job. They have listened to our requests for changes and worked tirelessly to modify WriteTrack to meet our specific needs. We have a rather remarkable editorial system that is allowing us to handle the volume of submissions and the complexities of running an international journal.

**Special Sections:** This year we are planning a Special Section on Aerospace Measurement techniques, with James Trolinger, *Metro-Laser*, as Guest Editor, and a two-part Special Section on Computational Fluid Dynamics Validations for Synthetic Jets and Turbulent Separation Control, CFDVAL, for which the Guest Editors are Christopher Rumsey, *NASA Langley Research Center*, and Thomas Beutner, *Air Force Office of Scientific Research*, and another two-part Special Section on Combustion Modeling and LES: Development and Validation Needs for Gas Turbine Engines, for which the Guest Editors are Fernando Grinstein, Nan-Suey Liu, *NASA Glenn Research Center*, and Joseph C. Oefelein Jr., *Sandia National Laboratories*. We are planning a Special Section entitled Recent Developments on Turbulent Boundary Layers based on two "Turbulent Boundary Layers" sessions at the AIAA meeting in Toronto in 2005. The Guest Editors are Luciano Castillo, *Rensselaer Polytechnic Institute*, and Anatoli Tumin, *University of Arizona*.

The AIAA Publications Committee and Editors-in-Chief are in the process of approving a revision to our long-standing Ethical Standards for Publication of Aeronautics and Astronautics Research. The revised document is published elsewhere in this issue. Instances of plagiarism, intentional or otherwise, have increased dramatically with the increase in the availability of documents electronically. Please take the time to read our Ethical Standards and to help to educate others on their applicability. An approved revised version of AIAA's Editorial Policy Statement on Numerical and Experimental Uncertainty also is published in this issue.

**Staff and Editorial Changes:** There have been a number of changes in the editorial staff in the past year.

The terms of four Associate Editors ended in December 2005. Of these, three will continue for another term: Kozi Fujii, *Institute of Space and Astronautical Science, Japan*; Carolyn Kaplan, *U.S. Naval Research Laboratory*; and Eli Livne, *University of Washington*. We thank them for their service to the *AIAA Journal* and for their willingness to continue.

Continuing Associate Editors are: Suresh K. Aggarwal, *University of Illinois at Chicago*; Mehdi Ahmadian, *Virginia Polytechnic Institute and State University*; Monika Auweter-Kurtz, *University of Stuttgart*; Christophe Bailly, *Ecole Centrale de Lyon*; Balakumar Balachandran, *University of Maryland*; Alex Berman, *Bloomfield, Connecticut*; Graham Candler, *University of Minnesota*; Harsha Chelliah, *University of Virginia*; Ndaona Chokani; Datta Gaitonde, *Air Force Research Laboratory*; Kirti (Karman) N. Ghia, *University of Cincinnati*; Peyman Givi, *University of Pittsburgh*; Jayavant P. Gore, *Purdue University*; Robert P. Lucht, *Purdue University*; Achille Messac, *Rensselaer Polytechnic Institute*; Wing Ng, *Virginia Polytechnic Institute and State University*; Anthony Palazotto,

*Air Force Institute of Technology*; Christophe Pierre, *University of Michigan*; Allen Plotkin, *San Diego State University*; Sunil Saigal, *University of South Florida*; Pasquale (Pat) M. Sforza, *University of Florida*; Kunigal N. Shivakumar, *North Carolina A&T State University*; Ronald So, *Hong Kong Polytechnic University*; and Anthony Springer, *NASA*. Their past and continuing service is very much appreciated.

New Associate Editors who began after January 2005 are Natalia Alexandrov, *NASA Langley Research Center*; Ajit Roy, *U.S. Air Force Research Laboratory*; Anatoli Tumin, *University of Arizona*; and Xiaolin Zhong, *University of California, Los Angeles*. Their willingness to join our staff is greatly appreciated. In particular, we would like to acknowledge and thank our new Deputy Editor, Kazhikathra (Kailas) Kailasanath, *U.S. Naval Research Laboratory*.

Very special thanks to retiring editors Ann Karagozian, *University of California, Los Angeles*; Bhavani Sankar, *University of Florida*; Shankar Mahalingam, *University of California, Riverside*; Helen L. Reed, *Arizona State University*; and Dean Mook, *Virginia Polytechnic Institute and State University*.

To our great sorrow, we also lost our newly appointed Survey Editor this year, Gerard M. Faeth, *University of Michigan*, who was the former Editor-in-Chief of *AIAA Journal*. A Memorial appeared in the April issue of this journal.

We wish to thank the continuing Advisory Board members for their help and advice throughout this year: Satya N. Alturi, *University of California, Irvine*; Dennis M. Bushnell, *NASA Langley Research Center*; Earl H. Dowell, *Duke University*; Edward M. Greitzer, *Massachusetts Institute of Technology*; Chih-Ming Ho, *University of California, Los Angeles*; Antony Jameson, *Stanford University*; 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, Austin*; Raymond Viskanta, *Purdue University*; Forman A. Williams, *University of California, San Diego*; and Israel J. Wignanski, *University of Arizona*.

I would like to extend my thanks to David Dolling, the current Vice-President of Publications, for his help and encouragement. In many ways, this has been a particularly difficult year with many decisions to be made and policies to be set, and David has been instrumental in guiding these to their proper conclusions. Michael McGinnes, who continues as the Editorial Assistant for the journal, is doing a superb job in developing the procedures for processing submitted papers. To them I extend my very special thanks. The AIAA editorial staff, in particular Norma Brennan, Director of Publications, Luke McCabe, Managing Editor, and Rich Ashley and Eric Eller, Publication Specialists, have effectively dealt with all of the problems of managing such a complex and widely circulated journal. They and the WriteTrack development staff, in particular Sean Malone and John McAndrew, have devoted an enormous amount of time to managing and encouraging us.

Last but far from least, we all owe a tremendous debt of gratitude to all of the individuals who reviewed papers for the journal this year. A list of their names follows.

Elaine Oran  
Editor-in-Chief

## Editor-in-Chief



**ELAINE S. ORAN**, Senior Scientist for Reactive Flow Physics at the U.S. Naval Research Laboratory (NRL), received an A.B. from Bryn Mawr College in 1966 and a Ph.D. from Yale University in 1972. She joined the NRL Plasma Physics Division in 1972 and became part of the Laboratory for Computational Physics in 1978. Her current research interests are in chemically reactive flows; deflagrations and detonations; computational science and numerical analysis; shocks and shock interactions in gas and condensed phases; computational methods; turbulence; microfluidics, and astrophysics. Application areas include combustion and propulsion, reentry and microdynamical flows; design of rocket motors; and astrophysical phenomena, particularly supernova explosions. She is a former AIAA Vice-President of Publications and has served for many years on the AIAA Publication Committee. She is a past Chair and founding member of the American Physical Society (APS) 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 served on the Board of Directors of the Combustion Institute (CI), and she is currently President of the Institute for the Dynamics of Energetic and Reactive Systems (IDERS). She was Associate Editor of the *Journal of Computational Physics* and Managing Editor of the journal *Shock Waves* and currently serves on the advisory boards of *Progress in Energy and Combustion Science* and *Shock Waves*. Dr. Oran received the Oppenheim Prize (IDERS, 1999), the Zeldovich Gold Medal (CI, 2000), and the Dryden Distinguished Lectureship in Aerospace Research (AIAA, 2002). She is a fellow of AIAA and APS and a Member of the National Academy of Engineering. Dr. Oran has published over 300 technical papers, written many review articles, and coauthored the book *Numerical Simulation of Reactive Flow* (Cambridge, 2001).

## Deputy Editor



**KAZHIKATHRA (KAILAS) KAILASANATH** has been the Head of the Center for Reactive Flow and Dynamical Systems at the Naval Research Laboratory since 1989. As Head of the Center, he is responsible for developing, supervising, advising on, and carrying out basic and applied research. He received his Ph.D. from the Georgia Institute of Technology in 1980 and has been at the Naval Research Laboratory since then. Prior to that, he received his M.S.A.E. from the Georgia Institute of Technology in 1979 and his B.Tech in Aeronautical Engineering from the Indian Institute of Technology (Madras) in 1976. His research interests include the structure, stability, and dynamics of flames and detonations; combustion instabilities in ramjets; multiphase flows; subsonic and supersonic mixing and noise generation; and the simulation of advanced propulsion system concepts. He has published more than 250 articles on these topics. He is a Fellow of the AIAA and the Institute of Physics. He was an Associate Editor of the *AIAA Journal* previously and is currently the Deputy Editor. He is also on the board of the journal *Combustion Theory and Modeling*. He is a Past Chair of the AIAA Propellants and Combustion Technical Committee.

## Associate Editors



**SURESH K. AGGARWAL** is Professor of Mechanical Engineering at the University of Illinois at Chicago and received his Ph.D. in Aerospace Engineering from the Georgia Institute of Technology in 1979. Since then, he has served on the Professional Research Staff at Princeton University and as a Senior Research Engineer at Carnegie-Mellon University. He joined the faculty of the University of Illinois at Chicago in 1984. His research interests include gaseous and spray combustion phenomena, direct numerical simulation of multiphase flows, nanoscale flows, high-pressure and multicomponent droplet phenomena, partially premixed flames, and microgravity combustion. Dr. Aggarwal has served as a Member of the AIAA Propellants and Combustion Technical Committee (1985–1989, 1991–1994, 2001–). He is currently serving as a Member of the AIAA Terrestrial Energy Technical Committee and the International Gas Turbine Institute (IGTI)–American Society for Mechanical Engineers (ASME) Fuels and Combustion Technical Committee. He has been a Technical Organizer for the Propellants and Combustion Technical Committee at the AIAA Aerospace Sciences Meeting (1989) and Joint Propulsion Conference (1993) and for the ASME Turbo Expo-Fuel and Combustion Program (1994). He has also served on numerous occasions as a consultant to government and industrial organizations. Dr. Aggarwal is a recipient of the University of Illinois Scholar Award and a biographee in *Who's Who in Science and Engineering* and *Who's Who in America*. He is an Associate Fellow of AIAA and a Member of ASME and the Combustion Institute. He has authored or coauthored more than 180 articles and papers.



**MEHDI AHMADIAN** is Professor of Mechanical Engineering at Virginia Polytechnic Institute and State University, where he also holds the position of Director of the Center for Vehicle Systems and Safety (CVeSS), the Railway Technologies Laboratory (RTL), and Virginia Institute for Performance Engineering and Research (VIPER). He received his B.S. (1980), M.S. (1982), and Ph.D. (1984) from the State University of New York at Buffalo. Dr. Ahmadian has authored more than 150 technical publications and has made more than 100 technical presentations on topics related to advanced technologies for ground vehicles. He holds six U.S. and international patents and has edited three technical volumes. He is currently Associate Editor of *AIAA Journal* and *Shock Vibration* and has served as Associate Editor for the American Society of Mechanical Engineers (ASME) *Journal of Vibration and Acoustics* (1989–1996). Dr. Ahmadian is a Fellow of the ASME and a Senior Member of AIAA.



**NATALIA ALEXANDROV** is a Senior Research Scientist at the Aeronautics Systems Analysis Branch of the NASA Langley Research Center. Her Ph.D. in Computational and Applied Mathematics is from Rice University. Her general interests are in computational science and engineering, with the focus on modeling and model management for design optimization of large-scale systems governed by partial differential equations; multidisciplinary optimization (MDO); and analysis and design of complex adaptive networks and systems of systems. She is an author of more than 30 publications on these subjects. Her recent work is in multidisciplinary problem synthesis and in developing rigorous approaches to design optimization of aerospace systems governed by variable-fidelity computational analyses with application to low-sonic-boom design. She is a member of SIAM, AIAA, and ISSMO and serves on the editorial board of *Optimization and Engineering*.



**MONIKA AUWETER-KURTZ** is a Professor of Aerospace Engineering at the Institute of Space Systems, Universität Stuttgart, Germany. She also received her M.S. and Ph.D. degrees from the Universität Stuttgart. Her current research interests include plasma wind-tunnel technology; reentry simulation; arcjet, magnetoplasmadynamic, ion, and hybrid thrusters; and aerothermodynamics and plasma techniques in general. She is a two-time Amelia Earhart Fellow and has been a member of the International Amelia Earhart Award Committee since 1990. She has received two AIAA best paper awards in Thermophysics and Electric Propulsion. Dr. Auweter-Kurtz is also the recipient of the Medal of Honor of the Federal Republic of Germany as well as the Window of Science Award from the U.S. Air Force. She serves on several AIAA Technical Committees and has been on the organizing, technical, or international committee of numerous international conferences. Dr. Auweter-Kurtz has contributed to more than 10 scientific books, has published over 40 articles in refereed journals, and has presented over 200 papers at international conferences. For three years she held the position of Scientific Collaborator for NASDA (National Space Development Agency of Japan) in the area of space transportation vehicles. She is an Associate Fellow of AIAA.



**CHRISTOPHE BAILLY** is Professor of Fluid Mechanics and Acoustics at the Ecole Centrale de Lyon (ECL, engineering school), France. He received his Ph.D. in Aeroacoustics from the Ecole Centrale Paris in 1994. He joined the Centre Acoustique of the Laboratoire de Mécanique des Fluides et d'Acoustique, Centre National de la Recherche Scientifique (CNRS), at ECL in 1995. He has also served as lecturer on turbulence and acoustics at the Ecole Centrale Paris (ECP) since 1995 and at the Ecole Nationale Supérieure des Techniques Avancées (ENSTA) since 2001. His research activities lie in the area of turbulence and noise generation with current emphasis on computational aeroacoustics, compressible large eddy simulation, jet noise, and hybrid approaches. His is coauthor, with Geneviève Comte-Bellot, of one textbook on turbulence and has authored or coauthored more than 40 papers in refereed journals and more than 80 conference papers. He is also a recipient of the Yves Rocard Prize from the French Acoustical Society (1996) and of the Alexandre Joannidès Prize from the French Academy of Sciences (2001).



**BALAKUMAR BALACHANDRAN** is a Professor of Mechanical Engineering at the University of Maryland, College Park. After completing his doctoral studies at Virginia Polytechnic Institute and State University (VPI&SU) in December 1990 and a postdoctoral stint at VPI&SU, he joined the University of Maryland in August 1993. His research interests are in the areas of nonlinear dynamics, vibration and acoustic control, signal analyses, and system identification. He is the author/coauthor of more than 30 journal publications, a Wiley Nonlinear Science book entitled *Applied Nonlinear Dynamics: Analytical, Computational, and Experimental Methods* (1995), and a Brooks/Cole–Thomson book entitled *Vibrations* (2003). He is a fellow of ASME and a member of AIAA, AAM, SPIE, and ASA. He serves on the editorial board of the *Journal of Vibration and Control*. He is a member of the ASME Technical Committees of Multi-Body Systems and Nonlinear Dynamics and Dynamics and Control of Structures and Systems.



**ALEX BERMAN** is a retired Aerospace Engineer. He received a B.A. and an M.A. in Physics from the University of Connecticut in 1949 and 1952, respectively. He was employed by Kaman Aerospace Corporation from 1951 until 1991, when he retired. At that time, he was the Head of the Research Department as Assistant Director for Research. He was responsible for projects that included advanced structural dynamics, vibration analysis, structural system identification, generalized component synthesis, and advanced computer program architecture. He directed and was a major participant in numerous research projects funded by NASA, the U.S. Army, and the U.S. Air Force. He has published over 50 technical papers. He has made presentations at numerous technical conferences and workshops and has given seminars at universities in his fields of expertise. He has been an Associate Editor since 1995. He is a Member of AIAA and the American Helicopter Society.



**GRAHAM V. CANDLER** is Professor of Aerospace Engineering and Mechanics at the University of Minnesota. He received his B.Eng. in Mechanical Engineering from McGill University in 1984 and his M.S. and Ph.D. in Aeronautics and Astronautics from Stanford University in 1985 and 1988, respectively. After one year as an aerospace engineer at the NASA Ames Research Center, he joined the faculty of North Carolina State University as an Assistant Professor. He then moved to the University of Minnesota in 1992. Prof. Candler's current research activities include the numerical simulation of high-temperature reacting flows, with application to reentry aerodynamics, hypersonic aerodynamics, aerothermodynamics, high-temperature gas physics, and plasma physics. He is also interested in low-density flows with application to microscale devices and high-altitude hypersonic flows. He is the author of over 150 papers on these topics. His work has twice won the AIAA Best Paper in Thermophysics Award. He has served as a Member of the AIAA Fluid Dynamics Technical Committee and is currently a Member of the AIAA Thermophysics Technical Committee. He also served as Associate Editor of the *Journal of Thermophysics and Heat Transfer*. He is an Associate Fellow of AIAA.



**HARSHA K. CHELLIAH** is Associate Professor of Mechanical and Aerospace Engineering at the University of Virginia. He received his Ph.D. in Mechanical and Aerospace Engineering from Princeton University in 1989. He continued his research work at Princeton University as a postdoctoral fellow/research staff member until he joined the University of Virginia in 1992. His current research interests include modeling two-phase reacting flows, including flame suppression using fine particles/droplets; microgravity combustion; heterogeneous combustion, including magnesium particle combustion in Martian atmospheric conditions; flame-acoustic interactions in simplified flowfields with detailed kinetic models; and development of skeletal and reduced reaction models for engineering applications. He is a member of the AIAA Propellants and Combustion Technical Committee and Chair of the subcommittee on Continuing Education. He served as the Technical Organizer for the Propellants and Combustion TC at the AIAA Aerospace Sciences Meeting in 1999. He is also a member of the American Society of Mechanical Engineers and of the Combustion Institute and is currently serving on the Executive Committee for the Eastern States Section of the Combustion Institute. Prof. Chelliah is an Associate Fellow of the AIAA and has authored more than 60 archival and conference papers.



**NDAONA CHOKANI** received his B.A. (First Class—Honors) in Engineering Science from Oxford University in 1984 and his Ph.D. in Engineering from Cambridge University in 1988. He served on the faculty at North Carolina State University and then on the faculty at Duke University, where he was a Professor in the Mechanical Engineering and Materials Science Department. His research interests include experimental studies of hydrodynamic stability in compressible flows and of shock wave/boundary-layer interactions, instrumentation, and digital signal processing techniques. This research work has been supported by the Air Force Office of Scientific Research, the Air Force Research Laboratory, NASA, and the National Science Foundation. He has several international scientific collaborations with research groups in France, Germany, Russia, and Switzerland. He previously served on the National Academies' Air Force Science and Technology Board, as Associate Editor of the *Journal of Aircraft*, and as a member of AIAA's Transition Study Group, Aerodynamics Measurement Technology Technical Committee, and Thermophysics Technical Committee. He is an Associate Fellow of the AIAA.



**KOZO FUJII** is Professor of the Department of Space Transportation at the Institute of Space and Astronautical Science (ISAS), Japan Aerospace Exploration Agency (JAXA), Japan. He received his Ph.D. from the Department of Aeronautics, University of Tokyo, in 1980. From 1981 to 1983, he was a NRC Research Associate at NASA Ames Research Center, and he became a Research Scientist at the National Aerospace Laboratory (NAL), Tokyo, Japan, in 1984. He became a Senior NRC Research Associate from 1986 to 1987. In 1988, He joined the ISAS as an Associate Professor of high-speed aerodynamics, and he was promoted to Professor in 1997. He has served also as a Professor of the Department of Aeronautics and Astronautics, University of Tokyo, since 1998. His research interests include high-speed aerodynamics, high-angle-of-attack aerodynamics, and flow visualization mainly by the computational fluid dynamics approach. He has recently become interested in wind-tunnel testing and serves as a Chairman of the wind-tunnel facility at the ISAS. He is a member of the MOSAIC project on the technology of the pressure-sensitive paint measurement system. He recently has been working on the aerodynamics and system design of reusable launch vehicles. He served as a Directors' Board Member of the Japan Society for Aeronautical and Space Sciences five times and is currently a director of general affairs. He has been an Associate Editor of the series "Notes on Numerical Fluid Mechanics" since 1987 and an Editorial Board Member of *Communications on Numerical Methods in Engineering* since 2000 and is a Managing Editor of *Journal of Visualization*. He is a Fellow of the Japan Society of Mechanical Engineers (JSME) and has been an Associate Fellow of AIAA since 1995. He received several awards from JSME, the Japanese Government, AIAA, and others. He is an author or coauthor of more than 200 papers. He wrote many review papers and books that include *Physics of Skiing* (in Japanese) and the translation of *Physics of Golf*.



**DATTA V. GAITONDE** received his B.Tech. from the Indian Institute of Technology, Bombay, in 1983, and his M.S and Ph.D degrees in Mechanical and Aerospace Engineering from Rutgers University in 1986 and 1989, respectively. Since 1989 he has been working at Wright-Patterson Air Force Base, where he is a Principal Research Aerospace Engineer and Technical Area Leader of the High-Speed Flows Group in the Air Vehicles Directorate of the Air Force Research Laboratory. His current research activities include development and application of multiphysics methods for high-speed propulsion and flow control, high-order algorithm development, three-dimensional shock-wave/turbulent-boundary-layer interactions, magnetogasdynamics, and electromagnetics. He is an author or coauthor of over 100 publications on these topics. He is an Adjunct Professor at Wright State University and an Associate Fellow of the AIAA. He serves on the AIAA Fluid Dynamics Technical Committee, where he currently chairs the CFD subcommittee.



**KIRTI "KARMAN" N. GHIA** is Herman Schneider Professor of Aerospace Engineering and Engineering Mechanics and Fellow of the Graduate School at the University of Cincinnati (UC). Dr. Ghia joined UC in 1969, after completing his graduate education in Mechanical and Aerospace Engineering at the Illinois Institute of Technology, Chicago. His research activities are in simulation of steady and unsteady separated viscous flows, high-incidence aerodynamics, vortex-dominated flows, nonlinear dynamics, turbomachinery flows, flow control, aeroelasticity, development of numerical methods, LES/DNS of turbulent flows, and grid generation techniques. Dr. Ghia's research work has been sponsored by the Air Force Office of Scientific Research, the Office of Naval Research, the Army Research Office, Wright Laboratory, NASA, the National Science Foundation, the Ohio Aerospace Institute, and the aerospace industry. The American Society of Mechanical Engineers (ASME) named him the Freeman Scholar for the 1995–1996 biennium and, at UC, he has been the recipient of numerous research and teaching awards. Dr. Ghia has held visiting positions at several organizations, including USC, 1986; ICASE, NASA Langley Research Center, 1985; Polytechnic Institute of New York, 1978; and Air Force Flight Dynamics Laboratories, 1976–1977. He has served as Associate Technical Editor of the *Journal of Fluids Engineering*, 1981–1990, Co-Editor of the *International Computational Fluid Dynamics Journal*, 1991–1998, and Co-Director of Computational Fluid Dynamics Research Laboratory, 1990–. Dr. Ghia has also served on the Fluid Mechanics Technical Committee of AIAA since 1986; ASME, since 1978; and as Chair of the Honors and Awards Committee of the Fluids Engineering Division of ASME, 1997–2000. He has chaired many national and international symposia and meetings. He is a Fellow of ASME and Associate Fellow of AIAA.



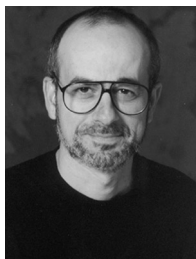
**PEYMAN GIVI** is the William K. Whiteford Chair and Professor of Mechanical Engineering at the University of Pittsburgh. Previously he held the position of UB Distinguished Professor at the State University of New York at Buffalo, and also worked as a Research Scientist at Flow Industries, Inc., in Seattle, WA. He has had visiting appointments at the NASA Langley Research Center and the NASA Glenn (Lewis) Research Center; and has won the Agency's Public Service Medal (2005). Professor Givi is among the first 15 engineering faculty nationwide who were honored to receive the Presidential Faculty Fellowship from President George Bush at the White House (1992). In 1990 he received the Young Investigator Award of the Office of Naval Research and the Presidential Young Investigator Award of the National Science Foundation. He received Ph.D. from Carnegie-Mellon University in 1984 and B.E. (Summa Cum Laude) from Youngstown State University in 1980, where he has been named the 2004 Distinguished Alumnus.



**JAY (JAYAVANT) P. GORE**, Vincent P. Reilly Professor within the School of Mechanical Engineering at Purdue University, received his B.E. (M.E.) degree from the University of Poona, India, in 1978 and his M.S. (1982) and Ph.D. (1986) degrees in Mechanical Engineering from the Pennsylvania State University. He completed a postdoctoral training program in Aerospace Engineering at the University of Michigan, Ann Arbor, prior to joining the University of Maryland in 1987. In 1991, Dr. Gore joined Purdue University as an Associate Professor and was promoted to the rank of full Professor in 1995 and to his present rank in 2000. His research interests include infrared sensing, diagnostics, and control, numerical and experimental studies of turbulent combustion, partially premixed flames, flame radiation, chemistry radiation interactions,  $\text{NO}_x$  and soot formation and emission, radiant burner flames, and sensors for pollutant control and fire detection. Dr. Gore teaches two graduate courses in combustion and two undergraduate courses in thermodynamics. He is the Chairman of the American Society of Mechanical Engineers (ASME) Committee on Heat Transfer in Fire and Combustion Systems, an Associate Fellow of the AIAA, and Chairman of the Board of Advisors of the Central States Section of the Combustion Institute. Dr. Gore is an author or coauthor of over 200 articles and papers. He received the 1987 Best Paper in ASME Heat Transfer Literature Award, a 1991 Presidential Young Investigator Award, and faculty sabbatical fellowships from the U.S. Department of Energy and the Japanese Ministry of Education in 1998. He is an Associate Editor of the ASME *Journal of Heat Transfer* and the U.S. Editor of the *Proceedings of the International Combustion Institute*, Vol. 28.



**CAROLYN R. KAPLAN** is a Research Chemical Engineer in the Laboratory for Computational Physics and Fluid Dynamics at the Naval Research Laboratory (NRL). She received her B.S., M.S., and Ph.D. degrees in Chemical Engineering from the University of Maryland in 1980, 1985, and 1987, respectively. Her research interests include direct numerical simulation of compressible, chemically reacting flows, nonequilibrium chemical and collisional gas dynamic processes in microflows, soot formation and radiation transport in combustion processes, and development and implementation of algorithms for large-scale scientific parallel computing. Prior to joining the Laboratory for Computational Physics and Fluid Dynamics in 1994, she was employed as a chemical engineer in the Combustion Section of the Chemistry Division of NRL from 1981 to 1994 and worked in private industry from 1980 to 1981. In addition, she served as an Adjunct Professor in the Mechanical Engineering Department at the University of Colorado in Boulder, Colorado, from 1997 to 1998. Dr. Kaplan is an Associate Fellow of AIAA, and a member of AIChE and Tau Beta Pi. She has served on review panels for AFOSR, NSF, and DOE and is author or coauthor of more than 45 journal articles and conference papers.



**ELI LIVNE** received his B.Sc (1974) and M.Sc. (1982) degrees in Aeronautical Engineering from the Technion—Israel Institute of Technology. From 1975 to 1984 he worked in the areas of structural dynamics, aeroelasticity, and aeroservoelasticity. He received his Ph.D. in Aerospace Engineering (1990) from the University of California, Los Angeles, and joined the Department of Aeronautics and Astronautics at the University of Washington in Seattle, where he is currently a Professor. Dr. Livne's research spans structures, structural dynamics, unsteady aerodynamics, flight mechanics, active control, and airplane multidisciplinary design optimization, with an emphasis on design-oriented modeling techniques. This work contributed to the development of efficient computational tools for integrated synthesis of actively-controlled aircraft and to some of the first studies in integrated multidisciplinary aeroservoelastic design. Dr. Livne's research has been supported by the U.S. Air Force, U.S. Navy, NASA, the National Science Foundation (NSF), and Boeing. He is a former member of the AIAA Multidisciplinary Design Optimization Technical Committee, the NASA/Boeing HSCT Aeroelastic Concept Evaluation Team, and the Boeing HSCT Aeroservoelastic working group. He is a recipient of a UCLA School of Engineering and Applied Science 1989–1990 Outstanding Ph.D. award and a 1992 NSF National Young Investigator Award. He won the 1998 ASME/Boeing Structures and Materials Award for the best paper given at the 1997 38th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference. He edited a January–February 1999 special Multidisciplinary Design Optimization issue of the *Journal of Aircraft* and is an Associate Fellow of AIAA.



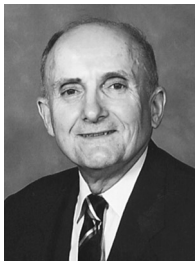
**ROBERT P. LUCHT** is currently a Professor in the School of Mechanical Engineering at Purdue University. He received his B.S. degree in Nuclear Engineering and his M.S. and Ph.D. degrees in Mechanical Engineering, all from Purdue University. He joined the Combustion Research Facility at Sandia National Laboratories in 1983 and was a member of the technical staff and then a department manager. In 1992, he became a faculty member at the University of Illinois at Urbana–Champaign. From 1998 to 2002 he was the G. Paul Pepper Professor of Mechanical Engineering at Texas A&M University. The focus of his research is the development and application of laser diagnostic techniques and optical sensor systems for probing both reacting and nonreacting flows. Currently, his research group is developing dual- and triple-pump CARS techniques for multiparameter measurements in combusting flows, investigating the potential of electronic resonance, dual-pump CARS for sensitive measurements of minor species, and investigating the physics of polarization spectroscopy and degenerate four-wave mixing. His group is also developing diode-laser-based optical absorption sensors for sensitive measurements of pollutant species, using sum- and difference-frequency mixing techniques to generate ultraviolet and midinfrared laser radiation, respectively. He is a member of the American Society of Mechanical Engineers, the Society of Automotive Engineers, the Optical Society of America, and the Combustion Institute. He is a Fellow of the Optical Society of America and an Associate Fellow of AIAA. He is the author or coauthor of over 70 archival journal papers.



**ACHILLE MESSAC** is Professor of Mechanical and Aerospace Engineering at the Rensselaer Polytechnic Institute. He received his B.S. (1981), M.S. (1982), and Ph.D. (1986) from the Department of Aeronautical and Astronautical Engineering at the Massachusetts Institute of Technology. He was a Senior Member of the Technical Staff at Draper Laboratory until 1994, where he led research in the areas of multibody dynamics, structural optimization, and control structure integrated design. He led such NASA efforts as the development of a large simulation for the dynamics and control of the Stabilized Payload Deployment System, a two-arm payload manipulator for the shuttle orbiter, for which he received an award. In 1994, he joined the Mechanical, Industrial and Manufacturing Engineering Department at Northeastern University, where he led the successful reform of the academic design program. He is currently leading the development of *Physical Programming*, a methodology that brings optimization within the easy reach of industry engineers. He is an Associate Fellow of AIAA, a Fellow of the American Society of Mechanical Engineers, the Former Chair of the AIAA Multidisciplinary Design Optimization (MDO) Technical Committee (TC), and a former member of the AIAA Structural Dynamics TC. He is on the Editorial Boards of the *Optimization and Engineering Journal*, the *Structural and Multidisciplinary Optimization Journal*, and the AIAA Publications Education Series. He is also active internationally. He was General Chair of the 10th AIAA/ISSMO Multidisciplinary Analysis and Optimization Conference and of the 1st MDO Specialist Conference. He has authored or coauthored more than 140 publications. He was a recipient of the CAREER award of the National Science Foundation.



**WING NG** is the Chris Kraft Endowed Professor of Mechanical Engineering at Virginia Polytechnic Institute and State University. He received his B.S. degree in Mechanical Engineering from Northeastern University in 1979 and his M.S. and Ph.D. degrees in Mechanical Engineering from the Massachusetts Institute of Technology in 1980 and 1984, respectively. Professor Ng's current research activities include turbomachinery fluid mechanics and heat transfer and active flow and noise control with application to aeropropulsion. He has published over 130 papers in archival journals and conference proceedings and has given many invited lectures both in the United States and abroad. His research has won Best Paper Awards from the American Society of Mechanical Engineers (ASME) and AIAA, as well as certificate of recognition from NASA. He is also recognized for his teaching and has received several teaching awards from Virginia Tech and the Ralph R. Teetor Educational Award from the Society of Automotive Engineers. He served as Associate Editor of the *Journal of Propulsion and Power* and *Journal of Fluids Engineering*. He has given expert testimony to the U.S. Congress in his fields of expertise. In addition, he served as the technical program chair for the AIAA Joint Propulsion Conference and the ASME International Gas Turbine Institute Turbo Expo. Dr. Ng is a Fellow of ASME and an Associate Fellow of AIAA. He is also the Chairman of Techsburg, Inc., a high-tech spin-off company from Virginia Tech located in Blacksburg, Virginia.



**ANTHONY N. PALAZOTTO** is Professor of Aerospace Engineering, Air Force Institute of Technology, Wright-Patterson Air Force Base, Ohio. He received his Ph.D. from New York University in 1968 with a specialty in the area of Solid Mechanics including a minor in Applied Mathematics. He has been involved in research and academics since that time. Dr. Palazotto's field of expertise includes nonlinear mechanics, shell analysis, mechanics of composite materials, nonlinear dynamics, and viscoplasticity. He recently worked on the problem of characterizing composite materials acting under high-velocity impact. In addition, he has carried out the analysis of reflective antennas undergoing nonlinear movement. Dr. Palazotto has received more than \$3.5 million in funding from various Air Force Directorates including the U.S. Air Force Office of Scientific Research. Dr. Palazotto has over 330 presentations and publications, 168 of which are in archival journals. He is the coauthor of a text entitled *The Nonlinear Analysis of Shell Structures* published by AIAA in 1992. He is a Fellow of the American Society of Civil Engineers, a Fellow of the American Academy of Mechanics, and a Fellow of AIAA, in addition to being a Professional Engineer.



**CHRISTOPHE PIERRE** is the Stephen P. Timoshenko Collegiate Professor of Mechanical Engineering at the University of Michigan, Ann Arbor, where he also holds the position of Associate Dean in the Rackham School of Graduate Studies. He received the Engineer Diploma in Aerospace Engineering from the Ecole Centrale de Paris, France, in 1982, the M.S. from Princeton University in 1984, and the Ph.D. from Duke University in 1985. He joined the faculty of the Department of Mechanical Engineering at the University of Michigan in 1985, where he was promoted to the rank of Professor in 1997. His research interests include structural dynamics, vibrations, and nonlinear dynamics, and he has done extensive work on mode localization in disordered periodic structures. He currently works in the areas of reduced-order modeling of complex structures, component mode synthesis, midfrequency dynamics, nonlinear modal analysis, and dry friction damped systems, with application to turbomachinery bladed disks and automotive body structures. He previously served as Associate Editor for the American Society of Mechanical Engineers' (ASME) *Journal of Vibration and Acoustics* and currently belongs to the Advisory Board of *Nonlinear Dynamics* and to the Editorial Board of the ASME's *Applied Mechanics Reviews*. He is a Fellow of ASME and a Senior Member of AIAA. Dr. Pierre has published more than 80 journal papers and a large number of conference papers and has given numerous invited lectures internationally.



**ALLEN PLOTKIN** is Professor of Aerospace Engineering and Engineering Mechanics at San Diego State University, where he has been a faculty member since 1985. He received B.S. and M.S. degrees from Columbia University and a Ph.D. from the Division of Engineering Mechanics at Stanford University in 1968. From 1968 to 1985 he was a faculty member in the Department of Aerospace Engineering of the University of Maryland, where he was promoted to the rank of Professor in 1977. During 1975–1976 he was a Visiting Associate in Engineering Science at the California Institute of Technology. His research interests are aerodynamics, hydrodynamics, and basic incompressible fluid mechanics. The research has emphasized the blending of analytical and computational techniques for the solution of a wide variety of flow problems, including fluid jets, airfoil and hydrofoil theory, ground effect, separation, and vortex modeling. He served two terms as a Member of the AIAA Fluid Dynamics Technical Committee. He is an American Society of Mechanical Engineers Fellow and an AIAA Associate Fellow. He received the AIAA Sustained Service Award in 2003 and the ASEE/AIAA John Leland Atwood Award in 2005. He is the coauthor (with J. Katz) of *Low-Speed Aerodynamics: From Wing Theory to Panel Methods*, published in 1991 by McGraw–Hill, and the author of approximately 40 journal papers. The second edition of *Low-Speed Aerodynamics* was published by Cambridge University Press in 2001. He has been an Associate Editor of the *AIAA Journal* since 1986.



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**SUNIL SAIGAL**, Professor of Civil and Environmental Engineering at Carnegie–Mellon University, received his B.S. in Civil Engineering in 1978 from Punjab Engineering College, M.S. in Structural Engineering in 1980 from the Indian Institute of Science, and Ph.D. in Aeronautics and Astronautics in 1985 from Purdue University. Before joining Carnegie–Mellon University in 1989, he served on the faculty of Mechanical Engineering at Worcester Polytechnic Institute (1986–1989). He served as the Director, Mechanics and Materials Program, at the National Science Foundation from 1996 to 1998; has held summer assignments at Hibbitt, Karlsson, and Sorensen, Inc. (1987), NASA Lewis Research Center (1990 and 1991), and Oak Ridge National Laboratory (1993); and spent a year (1992) as a visiting engineer at Mercedes Benz A.G. in Stuttgart, Germany. His primary research interest lies in the area of computational solid and structural mechanics. He has contributed to developments in finite elements, boundary elements, and the element-free Galerkin methods with applications in shape optimization, inverse problems, mechanics of materials, and probabilistic analysis. Dr. Saigal is an Associate Fellow of AIAA and has served on the AIAA Technical Committee for Structures since 1992. He is the recipient of the 1987 Worcester Engineering Society Admiral Ralph Earle Medal, the 1988 Society of Automotive Engineers Ralph R. Teetor Educational Award, the 1990 National Science Foundation Presidential Young Investigator Award, the 1990 Carnegie Mellon University George Tallman Ladd Research Award, the 1994 American Society of Civil Engineers (ASCE) Pittsburgh Section Professor of the Year Award, and the 1996 Carnegie Mellon University Richard Teare Award for excellence in teaching. He has served as the Associate Editor for Computational Mechanics for the *ASCE Journal of Engineering Mechanics* and is on the Advisory Editorial Boards for the *International Journal for Numerical Methods in Engineering*, *International Journal for Computational Civil and Structural Engineering*, and *Engineering with Computers*. Dr. Saigal is author and coauthor of more than 85 journal articles.



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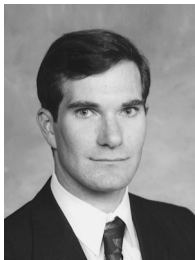




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**RONALD M. C. SO**, Chair Professor and Head, Department of Mechanical Engineering, Hong Kong Polytechnic University (PolyU), Hong Kong, received his M.A. and Ph.D. in Aerospace and Mechanical Sciences from Princeton University. He joined Union Camp Corporation, Princeton, in 1970. In 1972, he joined Rutgers University, New Brunswick, as a Postdoctoral Fellow and then as a Research Assistant Professor. He left Rutgers to join the General Electric Research and Development (GE R&D) Center, Schenectady, New York, in 1976. In 1981, he left GE R&D to become an Associate Professor in the Department of Mechanical and Aerospace Engineering, Arizona State University (ASU), Tempe. The following year he was promoted to Professor and remained there until 1996, when he left to head the ME Department at PolyU. His research led to the Dugald Clerk Prize, Institution of Mechanical Engineers, London, in 1991; the Lewis F. Moody Award of the American Society of Mechanical Engineers (ASME); and the Doctor of Science (D.Sc.) by the University of Hong Kong for original contributions in fluid dynamics and heat transfer in 1993. Dr. So is a Fellow of ASME, AIAA, IMechE, RAeS, and HKIE. He is an Associate Editor of *AIAA Journal* (1993–1995, 1998–2004), an Advisory Editor of the *International Journal of Mechanical Sciences* (1997–), and the *International Journal of Heat and Fluid Flow* (1994–), a Special Editor of *Combustion Science and Technology* (1988), and an Editor of ASME Special Publications (1984, 1986). Dr. So is the author or coauthor of more than 260 papers.



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**ANATOLI TUMIN** is an Associate Professor of aerospace and mechanical engineering and a member of the Applied Mathematics Program at the University of Arizona. He received his M.S. degrees in Physics and Applied Mathematics from Novosibirsk State University (1972, U.S.S.R.) and his Ph.D. and Dr.Sci. degrees in Physics and Mathematics from Moscow Institute of Physics and Technology (MIPT) in 1975 and 1987, respectively. In 1975, he joined the faculty of the Physics Department at MIPT as Assistant Professor. In 1982, he was employed by the Scientific-Industrial Design Bureau “Molniya” (Moscow), where he participated (as leading designer and Head of Sector) in the design of the Soviet Space Shuttle “Buran.” His responsibilities included prediction of laminar–turbulent transition and nonequilibrium heat transfer in reentry flight, specification of tolerances for elements of a thermoprotection system, and other aspects of aerothermodynamics relevant to the design of hypersonic vehicles. In 1990, he returned to MIPT as an Associate Professor. In 1992, he joined the faculty of Tel-Aviv University (Israel), where he was appointed an Associate Professor in the Department of Fluid Mechanics and Heat Transfer in 1993. In 2000, he joined the faculty of the University of Arizona. His current research interests include theoretical and computational studies of stability, transition, and flow control in high-speed flows. He has published two books and more than 50 archival journal papers. Dr. Tumin currently serves on the AIAA Fluid Dynamics Technical Committee. He is an Associate Fellow of the AIAA.



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