



Executive Committee Elections

Ballot due October 26, 2001

The Members-at-Large of the Executive Committee each serve three-year terms. Normally two members are elected each Fall. Also to be elected are the Vice-Chair (who will serve in that capacity in 2002, then as Chair-Elect in 2003, and then as Chair in 2004) and the Division Councillor (who serves as a liaison between the DFD and the other divisions of APS). The Nominating Committee: Brian Cantwell (Chair), Larry Redekopp, John Brady, John Kim, has nominated the following candidates. The ballot is due on October 26, 2001, and all DFD members should be receiving a ballot in mail. Please remember to vote.

Vice Chair

Juan C. Lasheras

Juan C. Lasheras is a Professor and Chairman of the Department of Mechanical and Aerospace Engineering at the University of California, San Diego (UCSD). Prior to joining UCSD, he was a professor in the Department of Mechanical Engineering at the University of Southern California (USC) and a research scientist at the Koninklijke/Shell-Laboratorium-Amsterdam (KSLA) in The Netherlands. He was a Profeseur Associe at the Institut de Mechanique de Grenoble in France, and a Visiting Professor at the Universidad Politecnica de Madrid, Spain. Lasheras received his MS and Ph.D. from the Department of Mechanical and Aerospace Engineering at Princeton University where he worked on the explosive combustion of multi-component fuel droplets. While at Princeton, he was a Guggenheim Fellow and a George VanNess-Lothrop Fellow. He was the recipient of the 1990 F.N. Frenkiel

Award for Fluid Dynamics from the APS/DFD. He is a Fellow of the APS and an Elected Member of the Royal Academy of Engineering of Spain. He has received numerous teaching awards at UCSD, including the Tau Beta Pi Engineering Honor Society 1994 annual teaching award. He has been a member of the APS/DFD Executive Committee and Secretary/Treasurer of the DFD from 1997-2000. He is the chairman of the organizing committee of the APS/Division of Fluid Dynamics 54th Annual Meeting to be held in San Diego, California on November 18-20, 2001. His research interests are in Combustion, Turbulent Shear Flows, Hydrodynamic Instabilities, Two-phase Flows, Particle/Turbulence Interaction, and Bio-fluid Mechanics. Lasheras is also a co-founder of INNERCOOL Therapies, a medical devices company producing endovascular catheters to induce therapeutic hypothermia for the treatment of brain strokes and myocardial infarcts.

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Jim Wallace

Jim Wallace is a Professor of Mechanical Engineering at the University of Maryland at College Park. He received his B.S. and M.S. degrees in 1962 and 1964 at the Georgia Institute of Technology and his D. Phil. in Engineering Science at Oxford University in 1969. He was on the research staff of the Max-Planck-Institut fuer Stroemungsforschung in Goettingen from 1969 until he joined the faculty of the University of Maryland in 1975. In addition to his research and teaching, Wallace has held several academic administrative positions at Maryland. From 1985–87 he was the Assistant Provost of the Division of Mathematics, Physical Science and Engineering. From 1993 - 1998 he served as Associate Chairman for Graduate Studies in the Department of Mechanical Engineering. He also founded and has been the director since 1998 of the Science, Technology and Society Program at Maryland. Wallace does experimental research on turbulent shear flows, in particular with the development of techniques for measuring and analyzing velocity gradient fields. He is currently in vestigating scalar dispersion in shear flows with environmental and

mixing applications, as well as turbulence in high temperature flows.

He has served on many of the committees of the Division of Fluid Dynamics. He was a member of the Fellowship Committee for four years from 1993–94 and 1998–99. He was on the Frenkiel Prize Committee and the Nominating Committee in 1995, serving as the chair of the Nominating Committee in 1996. He was vice chair and then chair of the Fluid Dynamics Prize Committee in 1996 - 97. He chaired the Organizing Committee for the DFD's annual meeting held in Washington, D.C. last November. Wallace is currently a member of the Program Committee.

He became a APS Fellow in 1989. Other recognitions of his research and teaching include: Distinguished Service Award in the Engineering Sciences of the Washington Academy of Sciences (1984), Distinguished Scholar-Teacher of the University of Maryland, college Park (1987), Achievement Award for Contribution to Science of the Sigma Xi Chapter of the university of Maryland (1992)

Executive Committee

Shiyi Chen

Shiyi Chen obtained his Ph.D at Peking University, China in 1987. He worked at Los Alamos National Laboratory as a post-doctoral fellow and Oppenheimer Fellow. He joined Theoretical Division at Los Alamos in 1990 as a research staff member. In 1994, he became a research staff member at the Department of Physical Sciences of IBM T. J. Watson Research Center. From 1997 to 1999, he served as the Deputy Director of the Center for Nonlinear Studies at Los Alamos National Laboratory. He is currently a Professor in the Department of Mechanical Engineering and the Department of Mathematical Sciences at the Johns Hopkins University. Chen is a Fellow of APS and a Fellow of Los Alamos National Laboratory. His research interests include theory and computation of fluid turbulence, lattice Boltzmann computational methods, computational fluid dynamics, numerical analysis, nonlinear dynamics, applied mathematics and large scale computing.

Walter I. Goldburg

Walter Goldburg is Professor Physics Emeritus at the University of Pittsburgh. He received his BA from Cornell in 1951 and a PhD from Duke University in 1954, working in experimental nuclear physics. From 1954-1959 he was a post-doc at Carnegie Mellon University (then Carnegie Tech). There he studied the mechanism of droplet formation in bubble chambers and the statistical mechanics of nuclear spin systems. This NMR work was continued when he was a faculty member at Penn State University (1959-1963) and then at the University of Pittsburgh, his present location. Since then Goldburg has worked on photon correlation spectroscopy (PCS), critical phenomena, and the dynamics of phase separation in fluids and in porous media. Those experiments led to his present interest in fluid dynamics and to the application of PCS to the study of turbulence, mainly in flowing soap films. He is a Fellow of the American Physical Society and the AAAS. In 1992 he received the University of Pittsburgh's Chancellor's Distinguished Research Award.

Paul Linden

Paul Linden is currently the Blasker professor of environmental science and engineering in the department of Mechanical and Aerospace Engineering at the University of California, San Diego. He received his BSc from the University of Adelaide in 1966, his MSc from Flinders University of South Australia in 1968, and his PhD from Cambridge University in 1971. Following a period as a postdoc in Cambridge at DAMTP, Paul was appointed the Director of the Fluid Dynamics Laboratory in DAMTP in 1976. He held this position until he moved to UCSD in 1998.

His research interests concern modeling geophysical and environmental flows in the laboratory and theoretically. Paul has worked on double-diffusive convection, particularly salt fingers and layering mechanisms, mixing in stratified fluids, gravity currents, and flows in rotating stratified systems. This research has applications in oceanography and meteorology, and in industrial contexts. He has also developed laboratory and theoretical modeling techniques to investigate ventilation in buildings. Recently he has been studying optimal propulsion of aquatic animals by shedding vortex rings.

Paul is a Director of Cambridge Environmental Research Consultants, a company which develops environmental software based on the latest research for the solution of environmental flow and pollution problems. He was previously on the editorial board of *Geophysical and Astrophysical Fluid Dynamics*, and is currently on the editorial board of the *Annual Review of Fluid Mechanics* and a region editor of the *Journal of Visualization*. Paul is currently a member of the APS/DFD external affairs committee

Timothy Wei

Timothy Wei is a Professor of Mechanical & Aerospace Engineering at Rutgers University. He received B.S. (1980), M.S. (1982) and Ph.D. (1987) degrees from Cornell, Lehigh and Michigan, respectively. He joined the Rutgers faculty in 1987 and served as Laboratory Director from 1993-1999. External appointments include Summer Faculty Fellow at NSWC (1990), Visiting Assoc. Professor at MIT (1994) and Visiting Professor at Tampere University of Technology in Finland (2000).

Tim's research interests lie in using high-resolution measurements to examine fundamental turbulent flows. Specific topics have included Reynolds number effects in turbulent channel flows, free-surface effects on turbulent boundary layers, and modeling fully coupled fluid structure interactions. A key focus of his work is on linking fundamental experiments to critical multidisciplinary applications from papermaking to endothelial cell migration.

He has also been active in conference organization and public policy through APS and other technical societies. In 1998, he joined Lex Smits as co-lead organizer of the APS-DFD meeting in Philadelphia. He is currently organizing an IUTAM symposium on fluid-structure interactions for June 2003, and is chairing the ASME "NSF Task Force", which drafts ASME position statements on NSF's annual budget requests to Congress. These are included in VAHUD appropriations subcommittee testimony.

Divison Councillor

Eberhard Bodenschatz

Eberhard Bodenschatz received his doctorate from the University of Bayreuth (FRG) in 1989 for his theoretical work on electro-convection of Liquid Crystals. After his postdoctoral work at the University of California in Santa Barbara, he joined the faculty of the Physics Department at Cornell University in 1992, where he works on the experimental (and numerical) investigation of Lagrangian properties of fully developed turbulence, pattern-formation

in thermal convection, interfacial instabilities, microfluidics, cardiac arrhythmia, and cellular networks. He is the recipient of an Alfred P. Sloan Fellowship and is a Cottrell Scholar. He is a member at large of the executive committee of the Topical Group on Statistical and Nonlinear Physics of the APS, and a member of the of the Electronic Information systems Taskforce of the APS. He is an editor of *Physica D* and of the new electronic-only *SIAM Journal on Applied Dynamical Systems* (please see also <http://milou.msc.cornell.edu>).

Harry Swinney

Harry Swinney holds the Sid Richardson Foundation Regents Chair of Physics at the University of Texas at Austin, where he is also the director of the Center for Nonlinear Dynamics. He was awarded a Ph.D. in physics from Johns Hopkins University in 1968, and he served on the faculties of New York University and City College of New York before going to the University of Texas in 1978. Swinney has studied instabilities, chaos, and turbulence in Couette-Taylor flow, rapidly rotating fluids, channel flow, and surface-tension driven systems. His current research concerns pattern formation and shocks in rapid granular flows, turbulence and transport in quasi-geostrophic flow, and viscous fingering.

Swinney is a member of the National Academy of Sciences and a fellow of the APS, the American Association for the Advancement of Science, and the American Academy of Arts and Sciences. He was awarded the APS Fluid Dynamics Prize in 1995. In the APS he has served as Councillor and member of the Executive Board, and in the Division of Fluid Dynamics he has served as a member of the Executive Committee and other committees.

Final notice for November annual meeting of the DFD

The American Physical Society Division of Fluid Dynamics Meeting 2001 November 18-20 San Diego, California.

The 2001 APS Division of Fluid Dynamics 54th Annual Meeting (November 18-20, 2001) is chaired and hosted by Professor Juan C. Lasheras at the University of California, San Diego. This year's scientific program will include two honor lectures, seven invited lectures, four minisymposia, contributed papers, exhibits, and the Gallery of Fluid Motion. The invited lectures are selected to illustrate the richness of topics, techniques and applications inherent in the study of fluid dynamics. More than 950 contributed abstracts, divided into 15 concurrent sessions are anticipated. For complete information, please see the website at www-mae.ucsd.edu/apsdfdMINI-SYMPOSIA.

Important Info

DATES AND DEADLINES

Abstract Submission	8/3/01
Gallery of Fluid Motion Entry Forms	10/05/01
Early Registration Deadline	10/19/01
Members \$260; Non-Members \$375	
Regular Registration Deadline	10/20-11/2/01
Members \$320; Non-Members \$425	
Hotel Reservation	10/25/01
Video Entries to the Gallery of Fluids ...	10/21/01
Order Additional AV Equipment	10/21/01
Pre-Registration Cancellation	11/5/01

TURBULENCE AND MIXING- IN MEMORIUM

A special minisymposium on turbulence and mixing will be held in honor of Charles Van Atta. The minisymposium is scheduled for Monday November, 19, 2001, and will extend over 3 regular sessions. There will be talks from 8 invited speakers: C. Gibson, A. Roshko, E. Hopfinger, J. Hunt, D. Caldwell, S. Thoroddsen, K. Sreenivasan, M. Lesieur. A number of selected papers from the contributed abstracts will also be included as part of the minisymposium. Interested contributors should indicate this in the Special Instructions box on the abstract submission form.

Organizers: Larry Armi larmi@ucsd.edu; Carl Gibson cgibson@mae.ucsd.edu; Keiko Nomura knomura@mae.ucsd.edu; Sutanu Sarkar sarkar@mae.ucsd.edu

FLUID MECHANICS OF BUILDING VENTILATION

Modern buildings are tightly constructed using highly insulating materials and often involve large glazed areas designed to maximize the use of natural light. The ventilation requirements for a comfortable temperature are usually far more stringent than the requirements for fresh air for respiration, and the ventilation system must be able to deliver the required heating and cooling throughout the year. Typically, the associated fluid flow is very complex. The effects of the internal geometry of buildings lead to difficulties in prediction of the precise flow driven by pressure gradients associated with mechanical forcing, thermal variability, and wind. Recently, motivated by the need to minimize the energy requirements of building ventilation for sustainability, a broad range of techniques have been used to model the properties of ventilation flows accurately. This symposium aims to bring together both academics and practitioners to give an overview of the present understanding of this field, and to point towards the solution of major outstanding problems. Organizers: Colm-Cille Caulfield cpc@mae.ucsd.edu; Paul Linden pflinden@ucsd.edu

CONTROL OF FLUID FLOWS

Recent developments in control and optimization theory, Navier-Stokes mathematics, and computational fluid dynamics have led to an unprecedented number of new research opportunities in the area of flow control. Recent investigations integrating these previously disjoint scientific disciplines have led to improved understanding of flow physics and solid computational evidence that, if applied properly, active control strategies might have very significant beneficial effects on both laminar and turbulent flows in actual engineering systems. Coupling this new understanding with advanced material and actuator/sensor fabrication technology, the path towards realization of several of these active flow control strategies is clear. This symposium will showcase the recent computational and control-theoretic developments of a few of the many groups working in this rapidly growing research area. Organizers: Tom Bewley, bewley@ucsd.edu; Miroslav Krstic mkrstic@mae.ucsd.edu

FLUID DYNAMICS OF THE GULF OF CALIFORNIA

This session concerns the fluid dynamics of the Gulf of California. Organizers: Pedro Ripa, ripa@cicese.mx; George Carnevale, gfc@ucsd.edu

ABSTRACTS

Abstract Submission Deadline 8/3/01 Abstracts should be submitted electronically (via e-mail or the web) before 5:00 p.m. EDT, AUGUST 3, 2001. (NOTE: The abstract submission date was INCORRECTLY listed as August 10 in the previous DFD Newsletter.) Complete abstract submission instructions can be found at <http://www.aps.org/meet/meet-abstract.html>. The deadline for receipt of abstracts is August 3, 2001. We strongly urge you to proof your abstract before submission. Contributors may submit one of two ways: (1) via the web, (2) by e-mail

AUDIO-VISUAL EQUIPMENT

An overhead projector and a VHS VCR with monitor will be provided in each meeting room. Additional equipment may be requested at cost; the deadline for special requests will be October 21, 2001.

SCIENTIFIC PROGRAM

This year's scientific program will include two honor lectures, seven invited lectures, four minisymposia, contributed papers, exhibits, and the Gallery of Fluid Motion. The invited lectures are selected to illustrate the richness of topics, techniques and applications inherent in the study of fluid dynamics. More than 950 contributed abstracts, divided into 15 concurrent sessions are anticipated.

AWARDS PROGRAM

Each year the APS Division of Fluid Dynamics presents several awards, including the Fluid Dynamics Prize, the Otto LaPorte Award, the Francois Frenkiel Award, and the Andreas Acrivos Dissertation Award. Winners of awards will be announced at the meeting.

INVITED LECTURES

Jean-Marc Chomaz, Ecole Polytechnique, France:
Why are Open Shear Flows Different?

Kerry Emanuel, MIT: *Physics of the Air-Sea Interface and Hurricane Behavior*

Y.C. Fung, UCSD: *Bi fluid Mechanics: From DNA to Man*

Walter Munk, SIO/UCSD: *The Moon, Of Course...*

Norbert Peters, Stanford University: *Premixed Turbulent Combustion Based on the Level Set Approach*

Andrea Prosperetti, Johns Hopkins University:
Air-Entraining Flows

Dale Pullin, CalTech: *Quantitative Vortex Models of Turbulence*

Martin Maxey, Brown University: *Simulation of Particle-Laden Flows*

SUNDAY RECEPTION

The meeting reception will be held at the San Diego Marriott on the Marina on Sunday, November 18 from 7:00-9:00 p.m. Cost of reception is included in the registration fee. Extra tickets are available for \$40 each.

EMPLOYMENT CENTER

The Employment Center will facilitate communication between attendees and prospective employers. There is no charge to employers or candidates who are paid conference registrants. Employers should complete a form for each position, which will then be posted in the Center. Those interested in a posted position can request an interview. Those seeking employment can either submit a resume for prospective employers to review or provide one when requesting an interview for one of the posted positions. Forms and information will be available at the Employment Center.

EXHIBITS

Nearly one dozen exhibitors will be participating in this year's meeting. For more information, please contact Harriet Kounaves at dfd2001@mae.ucsd.edu.

GALLERY OF FLUID MOTION

The 19th Annual Gallery of Fluid Motion will be part of the 2001 Annual Meeting of the Division of Fluid Dynamics. Attendees of the meeting are encouraged to submit entries consisting of posters or videos that show images and graphics from either computational or experimental studies of flow phenomena. The outstanding entries, selected by a panel of referees for artistic content, originality and ability to convey information, will be honored during the meeting and will appear in the annual Gallery of Fluid Motion article in the September 2002 issue of the Physics of Fluids. Those interested in submitting entries to the Gallery should send an e-mail with the subject listed as "GFM2001" to mlonguet@ucsd.edu. An electronic application form will be e-mailed in reply along with instructions for submission of poster and video entries. Application forms may be downloaded from <http://www.aps.org/meet/DFD01/dfdentry.pdf> and must be submitted by Friday, October 5, 2001.

POSTER ENTRIES

Poster entries should contain photographs and/or graphics along with brief explanatory text and the names and affiliations of all authors. At least one author must attend the meeting. Multiple entries by the same authors must contain different artwork. Posters must be set-up by the authors in the Gallery no later than noon on Sunday, November 18, 2001. The location of the Gallery can be found in the Meeting Guide and at the Registration Desk. NOTE: one-half of an 8-foot long x 4-foot high foam core board (4'x4'), along with pushpins, will be provided for each entry.

VIDEO ENTRIES

Video entries must be submitted in VHS format (1/2" NTSC; PAL is not acceptable) with a total running time of no more than three minutes. This time limit will be strictly enforced. Tapes should begin with a 20- second blank leader followed by the three-minute entry. Each entry should begin with a title and the authors' names and affiliations. At least one author must attend the meeting.

Entries may be in black and white or color, and with or without sound. (The sound tracks of entries intended to be silent should be checked for unwanted noise.) Tapes must be labeled on the outside with the entry title and the names and affiliations of contributors. All entries will be copied onto a single VHS tape prior to the meeting and will be shown in a continuous loop. All videotapes must be received by Professor Michael Longuet-Higgins, Institute for Non-Linear Science, UCSD, 9500 Gilman Drive, La Jolla, CA 92093-0402, by Friday, October 19, 2001.

REGISTRATION AND FEES

Participants must be registered and badges must be worn to gain entrance into all sessions and events. The registration fee includes the Sunday evening reception and coffee breaks on Sunday, Monday and Tuesday. It does

not include meals or lodging. Breakfast and lunch is available at the hotel restaurant or other nearby sites. Registration payment must be in U.S. dollars by credit card or check drawn on a U.S. Bank. We cannot assume fees for foreign bank transfers. Please note that there is a discount for early pre-registration (on or before October 19, 2001). We strongly recommend that you pre-register to obtain this savings and to avoid standing in long registration lines on-site. After October 19, you must pay the regular registration fee and forms must be received by November 2; otherwise you must register on-site. Registration fees for graduate students is \$110, for undergraduates \$10/day. The complete information for registration costs is located at the APS web site, <http://www.aps.org/meet/DFD01/>.

ON-SITE REGISTRATION HOURS

The registration desk will open on Saturday, November 17, 2001, at 6:00 p.m. at the San Diego Marriott Hotel where you will be able to pick up your badge and Bulletin if you have pre-registered, or register on-site if you have not.

CANCELLATION POLICY

The registration fee, minus a \$40 processing fee, is refundable if written notice is received prior to November 5, 2001; not refundable after this date. The hosts are not responsible for any charges or cancellation fees assessed by airlines.

HOUSING & TRAVEL

The convention hotel is the San Diego Marriott at the Marina where all technical sessions will be held. Guest rooms at reduced rates have been set aside at the Marriott Hotel for registered attendees from November 16-20, 2001. All hotel reservations must be received by October 25,

2001. After this date, attendees making reservations can expect to pay higher rates and may have to find other accommodations in the area. To make your reservations, contact the San Diego Marriott by phone at 888- 239-1208. Identify yourself as an attendee for the APS/DFD conference, provide the code of APHAPHI, and obtain your confirmation number. We currently have a negotiated rate of \$120/night for single/double occupancy; additional person \$20 (rates subject to tax). You may also book your room on-line at <http://www.marriott.com/reservations/>. At the web-site, select "California" then "San Diego-San Diego Marriott Hotel and Marina," enter your reservation dates, and the code APHAPHI in the "Group Code" box at the bottom of the page.

TRANSPORTATION

San Diego Lindbergh International Airport is located 10 minutes from the San Diego Marriott Hotel; Cloud 9 Shuttle provides service for \$7 each way. Cab service is also available and within a \$10 price range.



AIRLINES

Most major airlines serve San Diego's airport. Southwest Airlines is offering a 10% discount on most of its already low fares. You or your travel agent may call Southwest Airlines Group and Meetings Reservations at 1-800-433-5368 and reference ID code R7494. Reservations sales agents are available 8:00 a.m. - 5:00 p.m. Monday-Friday or 9:30 a.m. - 3:30 p.m. Saturday and Sunday. You must make reservations five or more days prior to travel to take advantage of this offer. Delta Airlines is offering 5% or 10% savings depending on the type of airfare you purchase. For Delta reservations, call 1-800-241-6760 and reference code 180460A (valid in the US, Caribbean, Mexico and Canada).



Courtesy of San Diego Convention & Visitors Bureau
Brett Shoaf

SHORT TAKES

NEW DFD WEBSITE

A new and updated DFD website has been prepared. It will be posted shortly on the official APS website. Please visit it and if you wish to provide feedback email Howard Stone at has@stokes.deas.harvard.edu.

The website should now contain updated information on all DFD activities, and has separate pages for announcements, meetings, fellowships & prizes, education and outreach efforts, and a link to the AIP/Physics of Fluids Gallery of Fluid Motion and videos. There is also a small DFD photo gallery to which you are encouraged to submit photos (instructions are provided). Of course, there is still room for improvement and a few items are yet in preparation.

Please note that the AIP and Physics of Fluids are preparing to put online the Gallery of Fluid Motion, which has been a major part of the DFD Annual Meeting for many years. Currently, the Gallery from 2000 is available for viewing (follow the

link on the new DFD website). In addition, video winners from the Annual Meeting will soon be available as well.

MULTI-MEDIA FLUID MECHANICS

Multimedia Fluid Mechanics, a new interactive CD-ROM for teaching undergraduate and beginning graduate fluid mechanics, has been released by Cambridge University Press. It is authored by G.M. Homsy, H. Aref, K.S. Breuer, S. Hochgreb, J.R. Koseff, B.R. Munson, K.G. Powell, C.R. Robertson, and S.T. Thoroddsen. Information on the CD, including still screen captures and examples of its functionality is available at: <http://www.cup.org/books/homsy/default.htm>

The CD is attractively priced at \$19.95, and can be ordered through the CUP website or through any campus bookstore. It has been favorably reviewed in *J.Fluid Mech.*, v.435, pg.410, 2001, *Chemical Engr. Education*, v. 35, pg.95, 2001, and the *AIAA Journal*.

View of San Diego Skyline from PT.Loma



Courtesy of San Diego Convention & Visitors Bureau/James Blank

SHORT TAKES (Contd)

NATIONAL ACADEMY OF ENGINEERING

A number of fluid dynamicists were elected to the NAE this year.

Joost A. Businger, independent consultant, Anacortes, Wash. For contributions to the field of atmospheric turbulence transport and its applications.

Liang-Shih Fan, Distinguished University Professor and chair of chemical engineering, The Ohio State University, Columbus. For leadership and contributions to research and education in the field of fluidization and particle technology.

Alice P. Gast, professor of chemical engineering, Stanford University, Stanford, Calif. For contributions to the understanding of the structure of complex fluids, especially polymeric and electro-rheological fluids, and to engineering education.

Fazle Hussain, Cullen Distinguished Professor, mechanical engineering department, University of Houston, Houston. For fundamental experiments and concepts concerning important structures in turbulence, vortex dynamics, and acoustics, and for new turbulence measurement techniques.

Kristina B. Katsaros, director, Atlantic Oceanographic and Meteorological Laboratory, National Oceanographic and Atmospheric Administration, Miami. For basic advances of ocean-atmosphere energy exchange through innovative measurement techniques.

Sangtae Kim, vice president and information officer, Eli Lilly and Co., Indianapolis. For contributions to microhydrodynamics, protein dynamics, and drug discovery through the application of high-performance computing.

Norman R. Morrow, professor of chemical and petroleum engineering, University of Wyoming, Laramie. For contributions to the understanding of interfacial phenomena governing wettability, connate water saturation, and spontaneous imbibition.

Wolfgang Schmidt, director, aeronautics, defence, and space research program, Daimler Chrysler Corp., Stuttgart, Germany. For outstanding contributions to computational aerodynamics and air vehicle design and engineering, and for promoting international leadership and cooperation.

Felix J. Weinberg, professor emeritus of combustion physics, Imperial College, London, England. For contributions to the understanding, diagnostics, and applications of a wide range of flame and combustion processes.



San Diego Convention Center

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NEWSLETTER INFORMATION

Material of interest to the DFD membership which you would like to appear in the next issue of the newsletter should be sent to the Vice-Chair, Fazle Hussain at fhussain@uh.edu.

