Division of
FLUID DYNAMICS
Newsletter
A Division of The American Physical Society Fall 2000

Ballot due October 9, 2000

Elections to the Executive Committee

The Members-at-Large of the Executive Committee each serve three-year terms. Two new members are elected each Fall. Also to be elected are the Vice-Chair and the Secretary-Treasurer. The Vice-Chair will serve in that capacity in 2001, then as Chair-Elect in 2002, and as Division Chair in 2003. The Secretary-Treasurer serves for a term of three years. The Nominating Committee of the Division has nominated the following candidates for the Executive Committee. A ballot, due **October 9, 2000**, is enclosed with this newsletter.

Vice Chair

Robert P. Behringer

Bob Behringer is James B. Duke Professor of Physics and Mechanical Engineering / Materials Science. He received his Ph.D. in Physics at Duke University for work in critical phenomena and quantum fluids. He carried out post-doctoral studies at Bell Labs on Rayleigh-Benard convection and on quantum fluids. He continued work on fluids for several years as an assistant professor at Wesleyan University. For the past 18 years he has been at Duke University. In addition to convection and quantum fluids, his interests include flows in porous media, Taylor-Couette flow, geostrophic flow, and granular flow. He is a Fellow of the American Physical Society and the American Association for the Advancement of Science, and he is editor for Physica D and Granular Matter. From 1990 to 1999 he was the Director of the Center for Nonlinear and Complex Systems at Duke University. He has organized the topical conferences Dynamics Days and Powders and Grains. His service to the DFD includes the DFD Fellowship Committee.

Fazle Hussain

Fazle Hussain is a Professor of Mechanical Engineering at the University of Houston, where he moved in 1971, following his PhD at Stanford University in 1969 and post-doc at the Johns Hopkins University. His research has involved transition and turbulence in jets, wakes, mixing layers, and boundary layers; coherent structures in fluid turbulence; vortex dynamics; jet noise; swirling flow; and holographic measurement techniques. He has served the APS / DFD as Co-Chair of the Annual Meeting of DFD at Houston in 1983, member of the Fluid Dynamics Prize Committee (91-93) and (00), and Vice-Chair (97-98) and Chair (98-99) of the Nominating Committee. He was Assoc. Editor of Phys. Fluids (81-84) and J. Fluids Engr. (95-98), and was the Technical Chair of the 30th AIAA Fluid Dynamics Conference, Norfolk, VA (1999). He served on the Physics Panel of the International Science Foundation (93-94) and NRC's Committee on US Naval Hydromechanics (99-00). He is on the Executive Committee of US National Congress of Applied Mechanics (1998-02). He has been on the Asian Committee of Fluid Mechanics since 1980 and was a Research Scholar at Indian Inst of Sci, Bangalore (1980); Chinese Acad. of Sci., Beijing (1983); DAMTP, Cambridge U. (1992); Isaac Newton Institute, Cambridge, UK (1999) and Institute of Theoretical Physics, UC Santa Barbara (2000). Fazle was awarded APS Fluid Dynamics Prize (1998) and ASME Fluids Engineering Award (2000). He is a Fellow of APS (1985), ASME (1989) and Assoc. Fellow of AIAA (1976).

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Executive Committee Elections Information, cont.

Secretary-Treasurer —

Joel H. Ferziger

Joel Ferziger is Professor of Mechanical Engineering and, by courtesy, Civil and Environmental Engineering at Stanford University, where he has been since completing his Ph.D. in nuclear engineering at the University of Michigan. His early work was in the solution of the Boltzmann equation for neutron transport, kinetic theory of gases, and radiative transfer. Since the early 1970s he has used direct numerical and large eddy simulations of turbulent flows to study the physics and modeling of engineering and environmental flows. He has authored or co-authored four books including "Mathematical Theory of Transport Processes in Gases" (with H.G. Kaper), "Numerical Methods for Engineering Application," and "Computational Methods in Fluid Dynamics" (with M. Peric) and been a consultant to several corporations. He has served as Associate Editor of the Journal of Computational Physics and the International Journal for Numerical Methods in Physics. He has won National Science Foundation and Fulbright Fellowships, a Alexander von Humboldt Award and a Max Planck Award. He is a Fellow of the APS and the ASME. His most recent service to the APS was as member and chairman of the Fluid Dynamics Prize Committee.

Howard *A*. Stone

Howard A. Stone is Professor of Chemical Engineering and Applied Mechanics in the Division of Engineering and Applied Sciences at Harvard University. His undergraduate and PhD degrees are in Chemical Engineering (from UC Davis and Caltech, respectively), and after a postdoctoral year in the Department of Applied Mathematics and Theoretical Physics at Cambridge University, he moved to Harvard in 1989. From 1989-94 he held a NSF Presidential Young Investigator Award and in 1997 was a visiting professor at ESPCI (Paris). His research interests are in low-Reynolds-number hydrodynamics, free-boundary problems, flow and transport in microdevices, fluid motion in foams, and thin-film flows and coating problems. He has collaborated with scientists from many disciplines, ranging from engineering to geophysics, physics, chemistry, and biology. Since 1997 he has been an Assoc. Editor of the Journal of Fluid Mechanics and in 2000 he presented the Stanley Corrsin Lecture in Fluid Mechanics at Johns Hopkins University. His teaching was recognized by the students of Harvard University in 1994 when he received both the Joseph R. Levinson Memorial Award and the Phi Beta Kappa Award for undergraduate teaching. In 2000 he was named a Harvard College Professor in recognition of his contributions to undergraduate teaching. His service to DFD includes chairing the first committee for the Andreas Acrivos Dissertation Award in Fluid Dynamics (2000), after serving on the organizing committee to establish the prize.

Executive Committee –

John K. Eaton

John Eaton is a Professor of Mechanical Engineering at Stanford University where he has been on the faculty since completing his Ph.D. there in 1980. Drawn into the field by water sports, he has been interested in fluid mechanics since 9th grade when he built the first of a series of home made wind tunnels. His research interests include flow and heat transfer in turbulent boundary layers subjected to strong three dimensionality or pressure gradient, rotating disk flows, particle-laden turbulent flows, unsteady aerodynamics and aeroelastic control, and gas turbine heat transfer. While the majority of his work is experimental, he remains active in simulation of multiphase flows. He is especially proud of the nine fluid mechanics professors who have graduated from his group. He recently completed a term as Associate Editor of the Journal of Fluids Engineering and is on the editorial boards of Experiments in Fluids and the International Journal of Multiphase Flows. He is a member of the organizing committee of the Turbulence and Shear Flow Phenomena series of symposia. He is a Fellow of the ASME. He previously served the DFD as a member of the Nominating Committee.

Said E. Elghobashi

Said Elghobashi is a Professor and Chairman of the Mechanical and Aerospace Engineering Department at the University of California, Irvine. He received his MSc in 1971 from the University of Southern California, PhD in 1974 from Imperial College (London), and DSc in 1999 from Imperial College. His research interests include the numerical simulation and modeling of turbulent stratified flows, turbulent reacting flows and particle-, droplet- or bubble-laden turbulent flows. For more information please see http://kolmog.eng.uci.edu/. He is a Fellow of the APS and the ASME, and a Visiting Fellow of Camridge University. He is a member of the Combustion Institute and a senior member of the American Instiute of Aeronautics and Astronautics. His service to the APS/DFD includes: Hosting and Chairing the Organizing Committee of the 48th DFD Annual Meeting in 1995 in Irvine, and membership on the External Affairs Committee (1997-1999).

Ari Glezer

Ari Glezer is a Professor of Fluid Mechanics in the George W. Woodruff School of Mechanical Engineering at the Georgia Institute of Technology where he moved in 1992 from the Aerospace and Mechanical Engineering Dept. at the University of Arizona. Before going to Arizona in 1984, he worked as a senior research engineer at the Aircraft Division of Northrop Corp. and was a Research Fellow in the Dept. of Fluid Mechanics and Heat Transfer at Tel Aviv University. He received his BS in Mechanical Engineering

Executive Committee Elections Information, cont.

from Tel Aviv in 1974, and his MS and PhD in Aeronautics from Caltech in 1975 and 1981, respectively. Glezer's research interests have focused on both the physics and applications of flow manipulation and control. His recent research efforts have included small-scale mixing processes in chemically reacting and nonreacting systems, external and internal aerodynamic flows, thrust control, atomization and coating, and single- and two-phase heat transfer. An important aspect of his work has been the development of novel mechanical and fluidic actuation approaches (e.g., piezoelectric actuators, synthetic jets) and MEMS-based actuation. His work in these areas has been supported by AFOSR, DARPA, NASA, and NSF. Industrial support has been provided by Allied Signal, Boeing, CIBA, Honeywell, IBM, Intel and Motorola. Glezer's service to the APS/DFD has included membership in the local organizing committees for the DFD meetings in 1985 (at the University of Arizona) and 1994 (at Georgia Tech). He has also been active in the AIAA where his service has included membership on the Fluid Dynamics and Aeroacoustics Technical Committees.

Patrick D. Weidman

Patrick Weidman is an Associate Professor of Mechanical Engineering and an Affiliate Professor of Applied Mathematics at the University of Colorado. He received a B.S. from Cal Poly, M.S. from Caltech, Diploma (with distinction) from the Von Karman Institute, Engineer Degree from Caltech and Ph.D. from USC, all in Aeronautical or Aerospace Engineering. After a seven year period at USC as a post-doc and lecturer, he joined the University of Colorado at Boulder. His research interests over the years include geophysical flows, solitary waves and their interaction, sloshing, boundary layer flow, vortex rings, similarity solutions, low Reynolds number flows, natural convection, vibrating soap films and granular material, and pattern formation. He has consulted on various fluid problems with Hughes Space and Communications, the Boulder County Justice Department, Colorado Steel and Technology, and MT West Pipliners and Fabrication Co. He is co-author of the book "Nonlinear Dynamics of Pattern Formation" to be released by World Scientific late this year. Weidman has been a Visiting Fellow, Scholar, or Professor at various institutions abroad, including the University of East Anglia (England), Universidad Complutense (Spain), International Center for Advanced Studies (Russia), Ecole Polytechnique (France), ETSI Aeronauticos (Spain), and the University of Offenburg (Germany). He has received a Certificate of Recognition from NASA and was last year elected Fellow of the APS.

Message from Eli Reshotko, Chair of the Division:

The Executive Committee of the Division of Fluid Dynamics invites requests to host meetings of the Division for 2003 and 2004. The Executive Committee wishes also to encourage nominations for the various prizes and awards of the Division, the Fluid Dynamics Prize, the Otto Laporte Award, and also the new Acrivos Dissertation Award. Detailed information about these was given in the Spring 2000 Newsletter.

2000 DFD ELECTIONS:
Deadline October 9, 2000

Please do not forget to VOTE
(Ballot included with this Newsletter)

53rd Annual Meeting of the Division of Fluid Dynamics

November 19 - 21, 2000 • Washington, DC

General Information

The 53rd Annual Meeting of the American Physical Society's Division of Fluid Dynamics (DFD00) will be held November 19-21, 2000 in Washington, D.C. The meeting will be hosted by the University of Maryland, 25 years after it first hosted the DFD's annual meeting in 1975 on its College Park campus. The conference planning firm, *Meetings And More*, will perform most of the services needed for the meeting except for the technical program planning.

2000 Meeting Site

The 2000 DFD Annual Meeting will be held at the Hyatt Regency Washington on Capitol Hill at 400 New Jersey Avenue, NW. This hotel is located within a few minutes walk of the U.S. Capitol and not far from the White House and many of the museums and other attractions of the nation's capital city.

Washington, D.C.

Our nation's capital, Washington, D.C. is also a major cultural center. Within easy walking distance of the meeting site is the National Mall, home to numerous museums including the National Gallery of Art, the Museum of African Art, the Freer Gallery, the Hirshhorn Museum, the Air and Space Museum, the Natural History Museum, and the Museum of American History. Both the National Gallery and Hirshhorn Museum have lovely sculpture gardens. Close by are the National Portrait Gallery and the National Archives where the originals of the American Declaration of Independence and the U. S. Constitution can be viewed. The Kennedy Center for the Performing Arts is easily reached by Metrorail. Also within walking distance or a short Metro ride is the MCI Center, home of the Washington Wizards and Capitals, the local NBA and NHL professional basketball and hockey teams. There are numerous restaurants at all price ranges within walking distance of or a short Metro ride from the hotel. Further information and reservation help can be obtained from the concierge desk in the lobby of the Hyatt Regency.

More information about tourist attractions can be obtained from the Washington D.C. Visitors & Convention Bureau: **http://www.Washington.org**

2000 Scientific Program

This year's scientific program will include two honor lectures, eight invited lectures, a minisymposium on the Physics of Complex Flows, 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 900 contributed abstracts, divided into 14 concurrent sessions, have been received.

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 for the first time this year, the Andreas Acrivos Dissertation Award. Winners of these awards will be announced in the fall.

Important Info

DATES AND DEADLINES

Abstract Submission	08/04/00
Gallery of Fluid Motion Entry Forms	10/02/00
Early Registration Deadline (lower rate)	on or before 10/20/00
Regular Registration Deadline (higher rate)	10/21 - 11/03/00
after November 3rd you must register on-site	
Hotel Reservation	10/17/00
Video Entries to the Gallery of Fluids	10/20/00
Order Additional AV Equipment	10/27/00
Pre-Registration Cancellation	11/10/00

PROGRAM INFORMATION

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Chair, Organizing Committee
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College Park, MD 20742
Phone: (301) 405-5271; Fax: (301) 314-9477
e-mail: wallace@eng.umd.edu

GENERAL MEETING INFORMATION

Meetings And More
5257 River Road, PMB 905
Bethesda, MD 20816
Phone: (301) 229-1037
Fax: (301) 229-0206
e-mail: mtgs911@aol.com

Contact Us About Exhibiting

CONFERENCE WEBSITES

http://www.enme.umd.edu/orgs/dfd2000/
http://www.aps.org/meet/DFD00

MEETING ID: DFD00

Invited Lectures

John D. Anderson
University of Maryland/Smithsonian Institution
The Dust of Ages: A History of the Development of the Navier-Stokes Equations

Lawrence Armi
Scripps Institute/University of California, San Diego
Stratified Flow Over Topography: The Role of Entrainment and Mixing in Flow Establishment

Alexandre J. Chorin
University of California at Berkeley
Scaling Laws for Turbulent Boundary Layers

Don P. Giddens
Georgia Institute of Technology/Emory University
Arterial Fluid Dynamics in Health and Disease

Heinrich M. Jaeger
University of Chicago
Signatures of Granular Microstructure in Slow Dense Flows

Chung K. Law
Princeton University
Aerodynamics of Laminar Flames

Jerome H. Milgram
Massachusetts Institute of Technology
Fluid Mechanics of Sailing Vessels

Peter L. Olson
The Johns Hopkins University
Fluid Mechanics of the Earth's Core

Audio-Visual Equipment

Only an overhead projector and a VHS VCR with monitor will be provided in each of the meeting rooms. However, additional equipment can be requested at cost from Meetings And More. The deadline for ordering additional AV equipment is October 27, 2000.

Gallery of Fluid Motion

The 18th Annual Picture Gallery of Fluid Motion will be held as part of the Meeting. The Gallery consists of aesthetically pleasing, insightful displays of still pictures, computer graphics and video clips submitted by the attendees. Both computational and experimental fluid dynamics entries are encouraged. Poster and video entries must not duplicate one another. Outstanding entries, selected by a panel of referees for originality and ability to convey and exchange information, will be honored during the meeting. Selected entries will also appear in the Gallery of Fluid Motion in the September 2001 issue of *Physics of Fluids*. All entry forms, which can be found at the end of this announcement, must be received at the following address no later than October 2, 2000:

Professor James Duncan
Department of Mechanical Engineering
University of Maryland
College Park, MD 20742
Tel.: (301) 405-5260 • Fax: (301) 314-2477
E-mail: duncan@eng.umd.edu

Poster Entries

In addition to photographs and/or graphics, poster entries should contain brief explanatory text and the names and affiliations of all authors. Multiple entries by the same authors must contain different artwork. Posters must be checked in at the conference registration desk and set-up in the Gallery no later than noon on Sunday, November 19, 2000. One-half of an 8-foot long x 4-foot high poster board (4'x4'), along with push pins will be provided for each entry. Thus, for ease of set-up, entries should NOT be mounted on foam core.

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. Entries may be in color and with sound. Tapes must include titles 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 continuous, posted order. All videotapes must be received by Professor Duncan by October 20, 2000.

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 will be available at the meeting site on a cash-and-carry-out basis. 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.

The fees are indicated in the Pre-Registration Form at the end of this announcement. Please note that there will be a substantial discount for *early* pre-registration (i.e., **on or before October 20, 2000**). We strongly recommend that you pre-register to obtain this savings and to avoid standing in long registration lines on site.

You can pre-register by mailing or faxing your completed form. After October 20th you must pay the regular registration fee (i.e., the higher fee) and forms must be received by November 3rd. Otherwise you must register on site.

Visit the APS and Conference websites at: **http://www.aps.org** and at **http://www.enme.umd.edu/orgs/dfd2000/**, respectively, after May 1, 2000 for full registration information.

On-Site Registration Hours

The registration desk will open on Saturday, November 18, 2000 at 6:00 pm at the Hyatt Regency 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.

Saturday, November 18th ..... 6:00pm - 9:00pm
Sunday, November 19th ..... 7:00am - 5:00pm
Monday, November 20th ..... 7:00am - 5:00pm
Tuesday, November 21st ..... 7:00am - 12:00 noon

Cancellation Policy

The registration fee, minus a $40 processing fee, is refundable if written notice is received by Meetings and More prior to November 10, 2000. After this date, it is not refundable, the hosts are not responsible for any charges or cancellation fees assessed by airlines.

Housing Information

The primary hotel will be the Hyatt Regency on Capitol Hill where all technical sessions will be held. Guest rooms at reduced rates have been set aside at this hotel for attendees from November 17-21, 2000. The overflow hotel is the Holiday Inn Washington, DC on The Hill located across the street from the meeting site. The Hyatt Regency on Capitol Hill is located approximately 20 minutes from Ronald Reagan National Airport and about one hour from Washington-Dulles and Baltimore Washington International Airports. It is two blocks from Amtrak's Union Station / Metro Subway.

All hotel reservations must be received **by October 17, 2000**. After this date, attendees making reservations can expect to pay higher rates, if rooms are available. To make your reservation, phone or fax the hotels at the numbers listed here, identify yourself as an APS / DFD attendee, and obtain a confirmation number for the reservation. A convenient hotel reservation form, to be mailed or faxed directly to the chosen hotel, is provided at the end of this announcement. The rates below do not include local taxes.

Hyatt Regency Washington
400 New Jersey Avenue, NW
Washington, DC 20001
Rates: $125 for single / $125 for double
$150 for triple / $175 for quadruple
Tel.: (202) 737-1234 or (800) 233-1234
Reservation Fax: (202) 942-1576
Website http: / / www.hyatt.com

Holiday Inn Washington, DC on The Hill
415 New Jersey Avenue, NW
Washington, DC 20001
Rates: $115 for single / $125 for double
$135 for triple / $145 for quadruple
Tel.: (202) 638-1616 or (800) 638-1116
Reservation Fax: (202) 638-0707
Website: http: / / www.basshotels.com / holiday-inn

Transportation

Reagan National, Dulles and Baltimore-Washington airports are served by major airlines with flights to many U.S. cities. Ground transportation is available by Metrorail to Union Station (10 minutes walk to the hotels) from Reagan National and from Dulles (with a connecting airport shuttle bus), by the MARC train service from Baltimore-Washington and by taxi and private shuttle bus services from all three airports. Amtrack rail service to Washington, D.C. is also available, terminating at Union Station. Parking is available at both hotels.

Rates are (at time of publication):

Hyatt Regency	$24 / day for overnight guest; $25 daily rate
Holiday Inn	$15 / day for overnight guest; $12 daily rate

Exhibits

Do not miss this opportunity to reach over 1000 attendees of the APS / DFD Annual Meeting! Exhibitors may present their products with a tabletop display or a booth. For more information, please contact *Meetings And More* at (301) 229-1037.

Sunday Reception

The meeting reception will be held in the beautiful Great Hall of the National Building Museum, a 10 minute walk from the Hyatt Regency, on Sunday, November19, 2000, from 7:00pm - 9:00pm. A shuttle bus service will also be provided beginning at 6:45pm.

Employment Center

There will be an Employment Center located in the Exhibit Hall for the purpose of facilitating 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.

Organizing Committee

The meeting is being hosted by the University of Maryland (College Park)

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William George
David Crighton
C. F. Chen, Vice-Chair
James Hill

SELECTION COMMITTEE FOR THE 2000 ACRIVOS DISSERTATION AWARD
Howard Stone, Chair
Nadine Aubry
Stanley Berger
Mory Gharib
Daniel P. Lathrop

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, **Stan Berger** at **saberger@me.berkeley.edu**