

Division of
FLUID DYNAMICS
Newsletter

A Division of The American Physical Society

Spring 2000

1999 DFD Fellows

James H. Duncan, *University of Maryland*

For his meticulous investigations, using experiments and computations, of interfacial phenomena including breaking waves, cavitation bubbles, and compliant surfaces.

Said E. Elghobashi, *University of California, Irvine*

For his many important contributions to fluid mechanics by application of direct numerical simulation to complex flows-including flows containing variations of density and heat release, and flows containing particles.

Edward J. Kerschen, *University of Arizona*

For fundamental contributions to the theoretical foundations of boundary-layer stability and transition to turbulence.

Norman D. Malmuth, *Rockwell Science Center*

For his fundamental contributions in nonlinear gas dynamics involving application of combined asymptotic and numerical methods to the understanding of transonic, hypersonic and plasma aerodynamics as well as industrial flows.

Michael J. Miksis, *Northwestern University*

For pioneering work on problems in multiphase flows including dynamics of contact-line motion, interfacial instabilities and effective media theory in bubbly fluids.

Zellman Warhaft, *Cornell University*

For substantial contributions to the understanding of transport and mixing in turbulence obtained through imaginative and careful experimental investigations.

Patrick D. Weidman, *University of Colorado*

For contributions toward the understanding of diverse fluid physics phenomena using a balance of theory and experiment.

Nomination for Fellowships

For the election of a Member to Fellowship, a nomination form signed by two members of the Society and citing the principal contributions of the candidate to physics shall be sent to the Executive Officer. Such contributions will ordinarily consist of advances in knowledge through original research and publication. They may also consist of significant contributions to the teaching of physics or service and participation in the activities of the Society. (Article IX, Section 1 of the APS Bylaws.) A Nomination for Fellowship form is attached. Fellowship sponsors should send the original and a duplicate of the nomination to the Executive Officer (address is given on the form). Nominations will be received at any time, but the deadline for consideration in any calendar year is February 15. In submitting a nomination, the following guidelines are recommended.

1. The two-page Nomination for Fellowship form should be carefully completed. The significance and impact of the candidate's work should be emphasized succinctly and references to a maximum of four (4) of the candidate's most important contributions be listed.
2. A maximum of three (3) letters of reference from sponsors should accompany the nomination.
3. A brief Curriculum Vitae which is limited to a maximum of five (5) pages should be provided.

Nominations for DFD Offices

The Nominating Committee is collecting suggestions for the nominees for the offices of Vice-Chair and Executive Committee Members for the 2001 ballot. Suggestions for nominees from membership should be sent to:

Ann Karagozian, Chair

phone: (310)825-5653; fax: (310)206-4830

e-mail: ark@seas.ucla.edu

The Vice-Chair serves successively as Chair-Elect and then Chair of the Division.

1999 Award Winners / Nominations for Awards

Fluid Dynamics Prize

Nominations for the Fluid Dynamics Prize, to be awarded at the November 2001 annual meeting of the APS/DFD, are requested by the Selection Committee.

Nominations should be sent to the 2001 Committee Chair:

Professor Wei Shyy
Aerosp. Eng., 231 Aero Bldg.
Univ. of Florida
Gainesville, FL 32611
Ph.:(352)392-6416 / Fax:(352)392-7303
Email:wss@aero.ufl.edu

not later than **January 19, 2001.**

A nomination should include:

1. A letter of not more than 1,000 words evaluating the nominee's qualifications in the light of the particular features of the prize (described below) and identifying the specific work to be recognized.
2. A biographical sketch.
3. A list of publications.
4. At least two, but no more than three, seconding letters and up to five reprints or preprints.

The Fluid Dynamics Prize is awarded for major contributions to fundamental fluid dynamics made during a career of outstanding work in the United States. The Prize shall ordinarily be awarded to one person but may be shared when all the recipients have contributed to the same achievement.

The Prize was established in 1979 with support from the Office of Naval Research. The Prize is now supported by friends of the Division of Fluid Dynamics and the American Institute of Physics journal, Physics of Fluids.

The recipient will be invited to present one of two major plenary lectures at the annual Meeting of the Division of Fluid Dynamics in November 2001.

The Division awarded the 1999 Fluid Dynamics Prize to Daniel D. Joseph of the University of Minnesota

In recognition of the broad range of his contributions to the stability and bifurcation of fluid flows, rheological fluid mechanics, and fluid mechanics of problems involving solid-liquid boundaries.

Otto Laporte Award

Nominations for the Otto Laporte Award, to be awarded at the November 2001 annual meeting of the APS/DFD, are requested by the Selection Committee. The Committee would like to increase the pool of highly qualified nominees; thus it encourages the APS/DFD membership to vigorously engage in the submission of nominations.

Nominations should be sent to the 2001 Committee Chair:

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Email:chen@ame.arizona.edu

not later than **January 19, 2001.**

A nomination should include:

1. A letter of not more than 1,000 words evaluating the nominee's qualifications in the light of the particular features of the prize (described below) and identifying the specific work to be recognized.
2. A biographical sketch.
3. A list of publications.
4. At least two, but no more than three, seconding letters and up to five reprints or preprints.

The Otto Laporte Award recognizes outstanding research accomplishments pertaining to the physics of fluids.

The Award was established as an APS Award in 1985, but existed as a Division lectureship Prize for twelve previous years. The Award is to recognize outstanding contributions to fluid dynamics and to honor Otto Laporte. It is endowed by the friends of Otto Laporte and the Division of Fluid Dynamics. The recipient will be invited to present a plenary lecture at the Annual Meeting of the Division of Fluid Dynamics. Nominations are active for three years.

The Division awarded the 1999 Otto Laporte Award to Eli Reshotko of Case Western Reserve University

For lasting contributions and leadership to the understanding of transition to turbulence in high-speed flows and non-homogeneous flows.

Francois Fenkiel Award

The Division of Fluid Dynamics awards the Francois Frenkiel Award in recognition of significant contributions to fluid mechanics that have been published in Physics of Fluids during the preceding year by young investigators.

**The 1999 Francois Frenkel Award recipients were:
Anne D. Dussaud and Sandra M. Troian,
Princeton University**

The article for which the award was given is:

Dynamics of spontaneous spreading with evaporation on a deep fluid layer, Phys. Fluids, 10(1), pp. 23-38, 1998

New Acrivos Award

The new APS Acrivos Dissertation Award in Fluid Dynamics, established to honor Andy Acrivos for his contributions to fluid dynamics and service to the fluids community, including 17 years as Editor of Physics of Fluids, will be awarded for the first time at the 2000 APS/DFD meeting. The Acrivos Award is intended to recognize exceptional young scientists for original outstanding doctoral thesis work in fluid dynamics done

in the U.S. The awardee receives \$1000 plus an allowance of up to \$1500 for travel to the DFD meeting. More information regarding the nomination procedures can be found at the web-site: <http://www.aps.org/praw/acrivos/descrip.html>. Nominations for the 2001 Award will be due approximately April 1, 2001, and will be based on doctoral dissertations completed in 1999, or in 2000 by the nomination deadline.

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.

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 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

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
<i>after November 3rd you must register on-site</i>	
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

Professor James Wallace
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e-mail: wallace@eng.umd.edu

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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

2000 Scientific Program

This year's scientific program will include two honor lectures, eight invited lectures, 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, 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 for the first time this year, the Andreas Acrivos Dissertation Award. Winners of these awards will be announced in the fall.

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

Abstract Submission

Abstracts should be submitted, electronically (via e-mail or the web), or in hardcopy by mail, before 5:00pm EDT, August 4, 2000. Electronic submission is encouraged because of the following advantages:

- You will receive a primary acknowledgment that we have received your abstract within 72 hours of sending it, a secondary message will have a log number to help reference your abstract if you have any questions or problems (withdrawals, changes, etc.), and a final message will include your session and paper number assignment to help you make travel plans.
- Your abstract will be included in its entirety in the on-line version of the Bulletin of the APS, which is given to members at the meeting. Those submitting on paper will have only their title and authors listed in both the on-line and the print versions of the Bulletin.

IF YOU SUBMIT ELECTRONICALLY, PLEASE DO NOT SEND A DUPLICATE PAPER COPY TO THE APS MEETINGS DEPARTMENT.

The rules for submitting an abstract (electronically or on paper) are: only a member can submit the abstract, it must meet the length requirement, and arrive by the deadline. The Meeting ID for the DFD meeting is DFD00.

Submission of Contributed Abstracts

Complete abstract submission instructions can be found at <http://www.aps.org/meet/meet-abstract.html>.

The deadline for receipt of abstracts is August 4, 2000. We strongly urge you to proof your abstract before submission. Contributors may submit one of two ways:

Submitting abstracts via the web: To submit a contributed abstract using the online web submission process, an author needs to know two things: (1) the number and ordering of authors and collaborations; and (2) abstract content. The web page will guide you through the rest. Try a test submission before submitting your abstract. Log onto <http://abstracts.aps.org> and select the meeting **TEST**. Follow the directions online to create your own practice abstract. When ready to submit your abstract online, select the meeting **DFD00** by clicking on the appropriate button. A form will be created for you. Simply input the information. Please note: Invited speakers should refer to their letters of invitation for instructions on locating the *invited* template.

Submitting abstracts via e-mail: Contributors must create their abstracts from an electronic template supplied by the American Physical Society. The template and instruction files for *contributed* abstracts can be obtained by sending email to abs-request@aps.org with the phrase **request DFD00** in the message. Invited speakers should refer to their letters of invitation for instructions on receiving the *invited*

template. Those contributors who are absolutely unable to submit an abstract via the web or electronically should contact meetings@aps.org.

If you have questions regarding abstract submission, please send them to abs-help@aps.org.

Please use the following sorting categories when submitting contributed papers:

Sorting Categories

1. Turbulent boundary layers
2. Turbulent shear layers
3. Turbulent mixing
4. Compressible turbulent flows
5. Turbulence theory
6. Turbulence simulations
7. Turbulence modeling
8. Turbulence and instability control
9. Boundary layer instabilities
10. Jet and wake instabilities
11. Shear layer instabilities
12. Taylor-Couette instabilities
13. Rayleigh-Taylor instabilities
14. Interfacial and thin-film instabilities
15. General stability
16. Separated flows
17. Viscous flows
18. Flows in porous media
19. Surface tension effects
20. Drops and bubbles
21. Suspensions
22. Multiphase and particle-laden flows
23. Non-Newtonian flows
24. Material processing flows
25. Free-surface flows
26. Waves
27. Rotating flows
28. Convection and buoyancy-driven flows
29. Vortex dynamics and 3D vortex flows
30. Geophysical fluid dynamics
31. Acoustics
32. Compressible flows
33. Supersonic and hypersonic flows
34. Reacting flows
35. Aerodynamics
36. Industrial applications
37. Micro fluid-dynamics
38. Chaos and fractals
39. Computational fluid dynamics
40. Experimental techniques
41. General fluid dynamics
42. Bio-fluid dynamics

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' x 4'), 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

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, November 19, 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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Joel Ferziger, Chair
Jerry Gollub
Fazle Hussain
Wei Shyy, Vice-Chair
Werner Dahm

SELECTION COMMITTEE FOR THE 2000 OTTO LAPORTE AWARD

Joel Koplik, Chair
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.