A Division of The American Physical Society

# 2000 DFD FELLOWS

# **Sam R. Coriell,** National Institute of Standards and Technology

For fundamental contributions to the theory of interaction between hydrodynamics and morphological instabilities during solidification.

#### Mohamed Gad-el-Hak, University of Notre Dame

For his original contributions to reactive controls of turbulent flows, pioneering work in developing laser-induced fluorescence techniques, and definitive experiments detailing fluid-compliant surface interactions.

### Juan Lasheras, University of California, San Diego

For landmark contributions to the fundamental understanding of combustion, free shear flows, particle/fluid interaction, and turbulence induced atomization of imiscible fluids.

### Omar Sevas, University of California, Berkeley

For contributios to the understanding of fluid flows through innovative experimentation in boundary layers, rotating flows, contributions, and vortex dynamics.

# Eric S. G. Shaqfeh, Stanford University

For applying statistical theories and numerical simulations to determine the averaged equations for fiber suspensions and polymeric fluids and elucidating the physical mechanism leading to hydrodynamic instabilities of complex fluids.

#### William A. Sirignano, University of California, Irvine

For his pioneering efforts in combining modeling and simulation of complex multiphase flows, and for the understanding these models have provided for pool fires and capillary instabilities.

### Gretar Tryggvason, University of Michigan.

For pioneering the use of direct numerical simulations of the study of finite Reynolds number multiphase flows, including the development of computational methods and studies of bubbly flows.

#### Daniel Weihs, Technion-Israel Institute of Technology

For outstanding contributions to aircraft performance, animal locomotion and behavior, fishing industry and ecoenvironmental quality.

#### Dominique Salin, Laboratoire FAST

For significant contributions in the development of experimental methods and lattice gas simulations that led to improved understanding of flows in Hele-Shaw cells and porous media and of suspensions.

NOTE: Referred to FIP by 2000 DFD committee

# Nominations For DFD Officers

The APS/DFD Nominating Committee is soliciting nominations for the offices of Vice-Chair, Division Councillor, and Executive Committee Member (2 open positions). Suggestions for nominations from the APS/DFD membership should be sent to

Professor Brian Cantwell

Chair of the Nominating Committee

Department of Aeronautics and Astronautics

Stanford University

Durand Bldg Room 27

Stanford CA 94305-4035

office: 650-723-4825;

email: cantwell@leland.stanford.edu

by APRIL 30,2001. Please note that the Vice-Chair serves successively as Chair-Elect, then as Chair and Past-chair of the Division.



2001 Committee Membership

**Short-Takes** 

# 2000 DFD Prize & Award Winners

#### FLUID DYNAMICS PRIZE RECIPIENT

# Professor Friedrich Hermann Busse of the University of Bayreuth.

For his seminal and extensive contributions to the understanding of instabilities in convective and rotating flows, for his development of upper-bound theories and their application to complex fluid flows, and for his use of fluid mechanics to elucidate geophysical and astrophysical problems.

#### Lecture title:

"Homogeneous Dynamos in Planets and in the Laboratory"

### OTTO LAPORTE AWARD RECIPIENT

#### Professor Hassan Aref of the University of Illinois.

For his pioneering contributions to the study ofchaotic motion in fluids, scientific computation, and vortex dynamics, and most notably for the development of the concept of chaotic advection.

#### Lecture title:

"The Development of Chaotic Advection"

# FRANCOIS FRENKIEL AWARD

# Michael P. Brenner, Massachusetts Institute of Technology

For his paper, "Screening Mechanisms for sedimentation," published in Physics of Fluids, Vol. 11, pp. 754-772 (1999). For a fresh approach to the long-standing paradox of the divergence of velocity fluctuations in an infinite sedimenting suspension based on physical intuition, scaling arguments, and numerical simulations.

#### ACRI VOS DI SSERTATI ON AWARD RECI PI ENT

# Dr. Vittorio Cristini, who received his Ph.D. in Chemical Engineering from Yale University.

His advisor was Professor Michael Loewenberg.

For important theoretical and numerical contributions to the description and understanding of drop dynamics and breakup in laminar and turbulent flows.

#### Di ssertati on ti tle:

"Drop Dynamics in Viscous Flow"

# Nomi nati ons for 2002

### FLUID DYNAMICS PRIZE

Nominations should be sent to the 2002 Committee Chair:

### Professor William Reynolds

Department of Mechanical Engineering Stanford University Bldg 500 Room 501G Stanford CA 94305-3030

Phone: (650) 723-3840 Fax: (650) 723-4548

E-mail: wcr@eddy.stanford.edu

#### OTTO LAPORTE AWARD

Nominations should be sent to the 2002 Committee Chair:

#### Professor Charles Meneveau

Department of Mechanical Engineering The Johns Hopkins University 200 Latrobe Hall 3400 North Charles Street Baltimore, MD 21218

Phone: 410-516-7132 Fax: 410-516-4316

E-mail: meneveau@titan.me.jhu.edu

# DFD MEETING

# 54th Annual Meeting of the Division of Fluid Dynamics November 18-20, 2001

#### GENERAL I NEORMATION

The 2001 APS Division of Fluid Dynamics 54th Annual Meeting (DFD01) will be held in San Diego, November 18-20, 2001. The meeting will be hosted by the University of California, San Diego. Most of the conference planning will be executed by the staff of the Mechanical and Aerospace Engineering Department at UCSD.

### 2001 MEETING SITE

The 2001 DFD Annual Meeting will be held at the Marriott Hotel and Marina located on San Diego Harbor. The hotel is on the water's edge, within walking distance of San Diego's newly revitalized Gaslamp Quarter, known for its nightlife and award winning restaurants. The airport is only a 10-minute cab or shuttle ride away and the San Diego Trolley stops across the street from the hotel. The San Diego Trolley runs through historic Old Town and to the Mexican border; various attractions such as the world famous San Diego Zoo and Sea World are within easy commuting distance of the hotel. The UCSD campus is approximately 15 miles north of the meeting site in the beautiful coastal community of La Jolla and is easily accessible by freeway. For more information about tourist attractions, please see the San Diego Convention & Visitors Bureau web site at www.sandiego.org.

### 2001 SCIENTIFIC PROGRAM

This year's scientific program will include two honor lectures, eight invited lectures, two 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 these awards will be announced at the meeting.

# Important Info

#### **DATES AND DEADLINES**

Abstract Submission	. 8/10/01
Gallery of Fluid Motion Entry Forms	10/05/01
Early Registration Deadline	10/19/01
Regular Registration Deadline 10/20	)-11/2/01
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

### **PROGRAM INFORMATION**

Professor Juan Lasheras
Chair, Organizing Committee
Department of Mechanical and Aerospace
Engineering
Engineering Building Unit II Room 150
University of California, San Diego
9500 Gilman Drive
La Jolla, CA 92093-0411
e-mail: lasheras@mae.ucsd.edu

#### **GENERAL MEETING INFORMATION**

### **Harriet Kounaves**

Department of MAE UCSD Mail Code 0411 La Jolla, CA 92093-0411 Phone: 858-534-0836

Fax: 858-534-7078

e-mail: dfd2001@mae.ucsd.edu

Conference web site:

http://www-mae.ucsd.edu/apsdfd

### ABSTRACT SUBMISSION

Abstracts should be submitted electronically (via e-mail or the web), or in hardcopy by mail, before 5:00 p.m. EDT, August 10, 2001. Electronic submission is encouraged because of the following advantages:

- 1) 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.
- 2) 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: 1) Only a member can submit the abstract; 2) it must meet the length requirement, and arrive by the deadline.

The meeting ID for the DFD 2001 is DFD01.

#### 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 if August 10, 2001. 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 collabora tions; 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 on-line to create your own practice abstract. When ready to submit your abstract on-line, select the meeting DFD01 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 e-mail to absrequest@aps.org with the phrase request DFD01 in the message. Invited speakers should refer to their letters of invitationfor instructions on receiving the invited template.

#### AUDI 0-VI SUAL EQUI PMENT

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.

### SORTI NG CATEGORI ES

- 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 materials
- 19. Surface tension effects
- 20. Drops and bubbles
- 21. Suspensions
- 22. Multi-phase and particleladen flows
- 23. Non-Newtonian flows
- 24. Material processing flows
- 25. Free-surface flows
- 26. Waves
- 27. Rotating flows
- 28. Convection and buoyancy-driven flows
- Vortex dynamics and3D 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
- 43. Oceanography
- 44. Atmospheric dynamics
- 45. Micro-fluid dynamics

### GALLERY OF FLUID MOTION

The 19th 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 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. Entry forms, to be available at the meeting web site, must be received at the following address no later than September 28, 2001: Dr. Michael Longuet-Higgins, INLS, Mail Code 0402, UCSD, La Jolla, CA 92093-0402. Phone: 858-534-3936; fax 858-534-7664; e-mail at mlonguet@ucsd.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 art work. Posters must be checked in at the Conference Registration Desk and set up in the Gallery no later than noon on Sunday, November 18, 2001. One-half of an 8-foot long by 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 Dr. Longuet-Higgins no later than October 21, 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. Visit the APS and Conference web sites at: http://www.aps.org and at http://www-mae.ucsd.edu/apsdfd/, respectively, after May 1, 2001, for full registration information.

#### 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 INFORMATION

The sole 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 1-800-228-9290). Identify yourself as an attendee for the American Physical Society/Division of Fluid Dynamics conference, and obtain a confirmation number. We currently have a negotiated rate of \$120/night for single/double occupancy; additional person \$20 (rates subject to tax).

#### 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.

#### EXHI BLTS

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 Harriet Kounaves at hkounaves@ucsd.edu

#### 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.

### **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.

## ORGANI ZI NG COMMITTEE

THE MEETING IS BEING HOSTED BY THE UNIVERSITY OF CALIFORNIA, SAN DIEGO.

Professor Juan C. Lasheras (Committee Chair) Department of Mechanical & Aerospace Engineering lasheras@mae.ucsd.edu

Planning Committee members are: Professors Thomas Bewley, Colm Caulfield, Carl Gibson, Sarah Gille, Joe Goddard, Paul Libby, Paul Linden, James Rottmann, Stefan Llewellyn Smith, Keiko Nomura, Constantine Pozrikidis, Sutanu Sarkar, and Forman Williams from MAE; Professors Larry Armi and Ken Melville from Scripps Institution of Oceanography; and Professor Michael Longuet-Higgins from the Institute for Non-Linear Science.

San Di ego Conventi on Center



Pl aza De Panama, Bal boa Park Photo Credit: Brett Shoaf



# Short-takes

#### I N MEMORI UM

George Batchelor, FRS, Professor of Applied Mathematics, DAMTP, University of Cambridge, passed away on March 30,2000 from Parkinson's at the age of 80. George made major theoretical contributions to turbulence and multi-phase flows. He founded the Journal of Fluid Mechanics and served as Editor from 1956 to 1996. George's textbook on fluid mechanics and his monograph on homogeneous turbulence are well known to all fluid dynamicists. He mentored countless number of fluid dynamicists and had a profound influence in the entire field.

**David Crighton**, FRS, Professor of Applied Mathematics, DAMTP, University of Cambridge, passed away on April 12, 2000 from cancer at the age of 57. David was a major figure in aeroacoustics, linear and nonlinear waves, and structural vibrations. David served as the Editor of the Journal of Fluid Mechanics from 1996 until his death. David was the recipient of the 1998 Otto Laporte Award of APS.

Tony Perry, Professor of Mechanical Engineering, University of Melbourne, passed away on January 3, 2001 from asthmatic complications. Tony earned his PhD from the University of Melbourne in 1966. Tony was well known for his experiments using hot-wire anemometry in regions of reversed flow and vortex shedding, application of critical point theory to describe flow patterns, and studies of wall turbulence using structure based modeling.

**Brad Sturtevant,** Hans W. Liepmann Professor of Aeronautics, Caltech, passed away October 20, 2000

from pancreatic cancer at the age of 66. Brad, who earned his PhD at Caltech in 1960, was well known for his research in unsteady gas dynamics, including shock wave propagation through nonuniform media, hydrodynamic sources of earthquakes and harmonic tremor, and the fluid mechanics of explosive volcanic eruptions. Brad served as Secretary-Treasurer of DFD for 1974-78.

Philip Thompson, Professor Emritus at Rensselaer Polytechnic Institute, passed away on March 23, 2001 from Parkinson's and Alzheimer's at the age of 72. Phil's research interests were thermodynamics and compressible flows, especially those with phase change. He authored a popular textbook on compressible fluid dynamics. Phil was a Fellow of ASME and member of the National Academy of Engineering.

Charles Van Atta, Professor Emeritus of Engineering Physics and Oceanography, University of California, San Diego,passed away on February 11, 2001 while he was skiing. Chuck, who earned his Ph.D. from Caltech in 1964, was well known for his research on the structural and statistical description of turbulent flows, the effects of stable stratification and rotation on geophysical flows, and dynamical systems analyses of three-dimensional vortex interactions.

### **EVENTS**

2001 Kovasznay Distinguished Lecture at University of Houston was delivered by H.K.Moffatt on March 29, 2001. Lecture Title: "Vorticity and Magnetic Field: a Seductive Analogy and its Limitations." This lecture series, started in 1981, has featured prominent fluid dynamicists.

View of San Diego Skyline from PT. Loma Photo Credit: James Blank



# APS/DFD 2001 Committee Membership

#### CHAIR:

#### Professor Parviz Moin

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#### **CHAIR-ELECT:**

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### **NOMINATING COMMITTEE:**

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Stan Berger, Chair Parviz Moin Howard Stone James Wallace Jerry Brackbill Juan Lasheras

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George Homsy Jerry Gollub

### **SELECTION COMMITTEE** FOR THE 2001 FLUID: **DYNAMICS PRIZE**

Wei Shyy, Chair William Reynolds, Vice Chair Werner Dahm Dan Joseph Norman Malmuth

### **SELECTION COMMITTEE** FOR THE 2001 OTTO **LAPORTE AWARD:**

C.F.Chen, Chair Charles Meneveau, Vice Chair James Hill Eli Reshotko David Kassoy

#### **SELECTION COMMITTEE FOR 2001 ACRIVOS AWARD**

Mory Gharib, Chair Dan Lathrop Sandra Troian Jon Freund Hossein Haj-Hariri

# NEWSLETTER I NFORMATI ON

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.