SPRING 2007

Division of Fluid Dynamics Newsletter

DFD News

A Division of the American Physical Society

THE 60TH ANNUAL DFD MEETING

SALT LAKE CITY, UTAH NOVEMBER 18-20, 2007

The 60th Annual DFD Meeting will be held at the Salt Palace Convention Center in Salt Lake City Utah, November 18-20, 2007. The meeting will be hosted by the University of Utah.

Meeting Venue

The 60th Annual DFD Meeting will be held at the Salt Palace Convention Center in Salt Lake City, UT, host of the 2002 Winter Olympics. The convention center provides significant space for technical sessions, invited talks, exhibits, breaks, and the Gallery of Fluid Motion. The conference hotels are adjacent to the convention center with over 50 restaurants within three blocks.

Salt Lake City

Salt Lake City, which was host to the 5th DFD meeting in 1952, is nestled in a valley at the foot of two mountain ranges—the Wasatch to the east and the Oquirrhs to the west. Downtown Salt Lake, which has a diverse assortment of cafes and restaurants, is a popular tourist destination and is known for its mountains and natural beauty. Salt Lake was the host of the 2002 Winter Olympics and is a 45 minute drive from seven different ski areas, the closest being only 25 minutes away. Mid-November usually marks the beginning of the ski season and attendees may wish to extend their stay for early season skiing on the "greatest snow on earth!"

For detailed information on Salt Lake dining, entertainment and skiing, please visit the Salt Lake City Visitors Bureau website: *http://visitsaltlake.com/visitor_info/index.html*.

Hotel Reservations

Three hotels adjacent to the Salt Palace Convention Center will be used for the meeting. The main hotel is the Downtown Marriot, with rooms also available at the Radisson and The Salt Lake Plaza Hotel.

To receive the special meeting rate, all reservations must be made through The Housing Connection. The phone number and website for hotel reservations will be announced in June and available at that time on the program website *http://dfd2007.eng.utah.edu*.

Downtown Marriott Hotel
$129.00 + Tax, single/double/triple/quad

Radisson Hotel
$109.00 + Tax, single/double
$119.00 + Tax, triple
$129 + Tax, quad

The Salt Lake Plaza Hotel
$92.00 + Tax, single/double/triple/quad

Deadlines

3 August
Abstract Submission
(Oral and Poster Contributed Talks)

17 September
Gallery of Fluid Motion Entry Forms

17 September
Video Entries to Gallery of Fluid Motion

18 October
Hotel Reservations (reduced rate ends)

22 October
Early Registration (reduced rate ends)

12 November
Pre-registration Cancellation

Scientific Program

This year's scientific program will include three award lectures, eight invited lectures, five minisymposia, contributed papers, poster sessions, exhibits, and the Gallery of Fluid Motion. More than 1200 contributed abstracts, divided into 18 concurrent sessions, are anticipated.

In this Issue

Awards Program

Each year the APS Division of Fluid Dynamics presents several prizes and awards: the Fluid Dynamics Prize, the Francois Frenkiel Award, and the Andreas Acrivos Dissertation Award. Winners of these awards will be announced in the Fall. A lecture by each award winner will be given at the meeting.

Minisymposia

Five minisymposia will be included in the scientific program.

1. **Incorporating Biology in a Fluids Curriculum**
   Organized by Eric Lauga
2. **Lagrangian Dynamics in Turbulence**
   Organized by Lance Collins
3. **Fluids Demonstrations and Instructional Laboratories**
   Organized by Jean Hertzberg and Douglas Bohl
4. **Turbulence Simulations and Advanced Cyberinfrastructure**
   Organized by P.K. Yeung
5. **Deformable Particle Suspensions and Solutions**
   Organized by Dewei Qi

Audiovisual Equipment

All rooms will be equipped with an LCD projector, screen, microphone, and pointer. Speakers must provide their own laptop computer to use with the projector. A Speaker Ready Room will be available to run through presentations and ensure that they work smoothly with the LCD projection equipment.

Conference Reception

A highlight of the meeting will be the Conference Reception on Sunday evening, November 18th, in the South Foyer of the Salt Palace Convention Center. See the conference website for up-to-date information!

Exhibitors

Do not miss the opportunity to reach over 1400 attendees of the APS/DFD Annual Meeting! For more information on exhibits or sponsorship, please contact Peggy Holland.
Phone: (301) 641-4150
Fax: (301) 320-2155
Email: mtgs911@aol.com.

Meeting Hosts

The meeting is hosted by the University of Utah with participation from Utah State University, Brigham Young University, and Idaho State University.

Program Organizers

Patrick McMurtry, Chair, Local Organizing Committee
Department of Mechanical Engineering
University of Utah
Phone: (801)581-3889
Email: mcmurtry@eng.utah.edu

General Meeting Information

Meetings and More
Monica Malouf
Phone: (301) 526-8129
Fax: (301) 320-2155
Email: mtgs911@aol.com

Conference Website

http://dfd2007.eng.utah.edu

Invited Lectures

"Entomological Fluid Dynamics"
John Bush, *MIT*

"Flow of Dense Granular Media; A Peculiar Liquid"
Olivier Pouliquen, *Université de Provence-CNRS*

"Twenty Years of Experimental and DNS Access to the Velocity Gradient Tensor: What We have Learned about Turbulence"
Jim Wallace, *University of Maryland*

"The Large-Scale Circulation in Rayleigh-Benard Convection: A Dynamical System Subjected to the Fury of Turbulence"
Guenter Ahlers, *UC Santa Barbara,*

"*The Collective Hydrodynamics of Swimming Micro-Organisms*"
Timothy Pedley, *University of Cambridge*

"Evolution of Efficient Flapping Flight: From Falling Paper to Insect Flight"
Jane Wang, *Cornell University*

"Morphodynamics of Rivers and Turbidity Currents: an Elegant Conversation between Water and Sediment"
Gary Parker, *University of Illinois Urbana-Champaign*

"Fundamentals, Challenges, and Applications of On-Chip Isotachophoresis"
Juan G. Santiago, *Stanford University*

RECIPIENTS OF PRIZES AND AWARDS

2006 Fluid Dynamics Prize

Tom Lundgren of the University of Minnesota was the recipient of the 2006 Fluid Dynamics Prize, which recognizes outstanding contributions to fundamental fluid dynamics research.

The award citation reads:

For his insightful and outstanding theoretical contributions to numerous areas of fluid mechanics, most notably in the fields of turbulence and vortex dynamics.

2006 Francois Frenkiel Award

Jan Skotheim of the Rockefeller University and **L. Mahadevan** of Harvard University were co-recipients of the François Frenkiel Award, which recognizes significant contributions to fluid mechanics that have been published in Physics of Fluids during the preceding year by young investigators. The award paper was titled: "Soft lubrication: The elastohydrodynamics of conforming and nonconforming contacts" [Phys. Fluids 17, 092101 (2005)].

The award citation reads:

For a thorough study of lubrication between soft surfaces, asking the question of optimal geometry and materials to maximize lift.

2006 Andreas Acrivos Dissertation Award

Eric Lauga of MIT was the recipient of the 2006 Andreas Acrivos Dissertation Award for his thesis entitled "Slip, Swim, Mix, Pack: Fluid Mechanics at the Micron Scale." The award recognizes an exceptional young scientist for original, outstanding doctoral thesis work in fluid dynamics done in the United States.

The award citation reads:

For the dissertation `Slip, Swim, Mix, Pack: Fluid Mechanics at the Micron Scale,' a treatment of slip and mixing relevant to micron-scale geometries, swimming of microorganisms and self-assembly of colloidal particles.

Professor Lauga did his doctoral thesis work at Harvard University under the direction of Michael Brenner and Howard Stone.

2006 APS/DFD Fellows

Each year the number of new Fellows is limited to be no more than ½ of 1% of the membership. The new 2006 Fellows are:

Sivaramakrishnan (Bala) Balachandar (University of Florida): For fundamental contributions to the understanding of thermal convection in the earth's mantle, the structure of bluff body wakes and their effect on the dynamics of small particles, the dynamics of vortices in all turbulence, and theory of two-phase flow, including the equilibrium Euler formulation for disperse flow.

Roger T. Bonnecaze (UT Austin): For seminal contributions to the understanding of suspension and interfacial flows.

Garry L. Brown (Princeton): For seminal contributions to the understanding of structure and mixing in turbulent shear flows.

Tom C. Corke (Notre Dame): For beautiful experiments elucidating the structure of turbulent boundary layers, the transition from laminar to turbulent flow in boundary layers and in unconfined systems, and the control of turbulence.

Chung King (Ed) Law (Princeton): For sustained and outstanding contributions to the fundamentals of combustion, notably those on the dynamics and combustion of droplets, the dynamics, structure, extinction, and stability of flames, and flame chemistry.

Jacques Magnaudet (Institut de Mecanique des Fluides de Toulouse): For numerical and theoretical contributions to the understanding and description of multiphase flows at both high and low Reynolds numbers, including turbulent flows and heat and mass transfer.

Bernard J. Matkowsky (Northwestern): For fundamental contributions to combustion theory; for the formulation and derivation of mathematical models, and their systematic analysis and computation to describe observed behavior and to predict new, as yet unobserved thermally active physical and chemical processes.

Mark Godfrey Mungal (Stanford): For the fundamental understanding of mixing and chemical reactions in subsonic and supersonic shear layers and jets in co-flow and cross-flow, and for elucidating the role of the flow field in flame stabilization.

Ronald L. Panton (UT Austin): For insightful application of analytical methods to fluid mechanics, the study of turbulence, including wall-bounded turbulent flows and pressure fluctuations, and for authorship of a successful graduate-level fluids textbook.

Dale I. Pullin (Caltech): For his deep, insightful contributions to theoretical/computational fluid dynamics

including: understanding of vortex sheet dynamics, the equilibrium particle simulation method, and physics-based vortex models for turbulence and large-eddy simulation.

Satanu Sarkar (UC San Diego): For outstanding and original contributions to the physics of turbulence in compressible flows, stratified flows and combustion, and for the numerical modeling of these important processes.

David R. Williams (IIT): For contributions to the understanding of fluid flow and flow control through innovative experimentation with cylinder wakes, cavities, and bodies of revolution.

M. Grae Worster (Cambridge University): For making fundamental advances in understanding the interaction between solidification and convection in mushy layers through systematic analytical, numerical and experimental studies.

Pui-Kuen (P.K.) Yeung (Georgia Tech): For insightful contributions to the understanding and modeling of similarity scaling in turbulence and the mixing of passive scalars, especially the study of Lagrangian statistics and dispersion in turbulence through high-resolution simulations addressing Reynolds number and Schmidt number dependencies.

Winners of the 2006 Gallery of Fluid Motion

Posters

Elastic Splashes: Elastic Splash of Two Newtonian Liquids *by Torben Grumstrup and Andrew Belmonte*

The Viscous Catenary *by John Koulakis and Catalin D. Mitescu*

Cavity Jets *by Arnaud Antkowiak Nicolas Bremond, J'erome Duplat, Stephane Le Dizes, and Emmanuel Villermaux*

A Microfiuidic Aquarium *by Thomas Cubaud and Thomas G. Mason*

Capillary Origami *by Charlotte Py, Lionel Doppler, Jose Bico, Benoit Roman, Paul Reverdy, and Charles Baroud*

Beading Up *by Tim Read, Tanner Ladtkow, Andrea Fabri and Jean Hertzberg*

Videos

Leaping Shampoo and the Stable Kaye Effect *by Michel Versluis, Cor Blom, Devaraj van der Meer, Ko van der Weele, and Detlef Lohse*

Creeping, Walking and Jumping Drop *by Alan Renaudin, Elisabeth Galopin, Vincent Thorny, Christian Druon and Farzam Zoueshtiagh*

Bouncing of a Jet off a Newtonian Liquid Surface *by Matthew Thrasher, Sunghwan Jung, Yee Kwong Pang and Harry L. Swinney*

Electro-Coalescence *by Hamarz Aryafar and Pirouz Kavehpour*

Optimization of Anguilliform Swimming *by Stefan Kern, Petros Koumoutsakos and Kristina Eschler*

Highlights of the 59th Annual DFD Meeting Tampa Bay Florida, November 19-21, 2006

(Tony Ladd, Local Program Committee Chair)

The 2006 DFD meeting was held at the Marriot Waterside Hotel in Tampa. Highlights included three award lectures, eight invited lectures,1300 additional contributed papers including 23 talks in four minisymposia, and over 100 poster and video entries for the Gallery of Fluid Motion. A total of 1480 people registered for the meeting and over 1400 joined their colleagues for the reception at the Tampa Aquarium. Over one-quarter of the registrants were affiliated with institutions from outside of the United States, from a total of 38 countries, mostly Western Europe, but with significant contingents from East Asia, North and South America, and Australia. Fifty people, mostly young scientists or scientists from developing countries, were awarded travel grants enabling them to attend the meeting. The travel grant program was funded by the DFD, the Abdus Salam International Centre for Theoretical Physics, Schlumberger Limited, and the University of Florida. 40% of the registrants were students, including 560 graduate students and 37 undergraduate students, demonstrating the strong support for the development of young scientists and engineers in the DFD community. Some of these students had the opportunity to have lunch with senior members of the fluid dynamics research community, a special event to further encourage their career development.

Invited lectures were presented by Anette Hosoi, Don Rockwell, Detlef Lohse, Dan Henningson, Nadine Aubry, D. Scott Stewart, T.N Krishnamurti, and Roger Kamm. The invited and award lectures will be available on the APS/DFD web site (*www.aps.org/units/dfd*). In addition, the meeting included four mini-symposia: U.S.-Mexico Mini-symposium on Geophysical Fluid Dynamics, Fluid Mechanics Education, Quantum Turbulence, and Fluid Dynamics and Plasma Physics.

The 153 contributed sessions covered a wide range of topics over the whole range of fluid dynamics. Bio-fluid

dynamics sessions continue to be largest area with 125 contributed papers, but microfluidics is closing the gap with 114 papers this year—up 15% from Chicago despite the 15% reduction in meeting size. These areas now require so many sessions that doubling up has become inevitable. DFD is considering changes to the sorting categories to reflect recent changes in research emphasis.

The 24th Annual Gallery of Fluid Motion included 44 poster entries and 68 video entries presenting research from the United States and many foreign countries. The ratio of video to poster entries has reversed from previous years and now there are more videos than posters. This year's entries exhibited an outstanding display of experimental and numerical results that combined artistic beauty with physical insight for a wide range of fluid mechanics phenomena. A panel of distinguished experts in the fluid dynamics community served as judges for the poster and video entries. Highlights from the winning poster and video entries will be published in a special Gallery of Fluid Motion article in the September 2007 issue of Physics of Fluids as well as being posted on the Physics of Fluids web site.

This year saw the inaugural "High School Teachers Workshop" organized by Jean Hertzberg. Over the course of six hours, the teachers were presented with simple experiments illustrating basic concepts in fluid statics and dynamics. In addition, teachers were invited to attend the meeting and listen to lectures on recent research. The goal of the workshop is to impact and inspire students towards pursuing further education in engineering and science.

The local organizing committee for the meeting was composed of faculty from the departments of Chemical Engineering, Mechanical Engineering, and Physics at the University of Florida, Gainesville.

Call for APS DFD Executive Committee Candidates

The Nominating Committee of the APS Division of Fluid Dynamics invites suggestions for candidates for Vice-Chair and two Members-at-Large positions for the Executive Committee of the DFD. Please send names of potential candidates to the Chair of the Nominating Committee, Roger Bonnecaze, Department of Chemical Engineering, The University of Texas at Austin (rtb@che.utexas.edu) by 1 June 2007.

Officers and Members-at-Large of the Executive Committee must be members of the Division for at least two years prior to nomination. The member elected as Vice-Chair shall serve in that office for one year, then for one year as Chair-Elect, then for one year as Chair of the Executive Committee, and finally one year as Past Chair. The Members-at-Large will serve for three years. More information on these positions can be found at the governance section of the APS DFD website *http://units.aps.org/units/dfd/*. The Nominating Committee will select two nominees for each position.

Upcoming Annual DFD Meetings
(Chair of Local Organizing Committee)

2008 DFD Meeting in San Antonio, Texas
November 23-25, 2008
Chair: Prof. Sharath Girimaji,
Texas A&M University
Email: girimaji@aeromail.tamu.edu

2009 DFD Meeting in Minneapolis, Minnesota
November 22-24, 2009
Chair: Prof. Krishnan Mahesh,
University of Minnesota
Email: Mahesh@aem.umn.edu

2010 DFD Meeting in Long Beach, California
November 21-23, 2010
Chair: Prof. Andrzej Domaradzki,
University of Southern California
Email: jad@usc.edu

2011 DFD Meeting in Baltimore, Maryland
November 20-22, 2011
Chair: Prof. Andrea Prosperetti
Johns Hopkins University
Email: prosperetti@jhu.edu

Invitation from the Topical Group for Statistical and Nonlinear Physics (GSNP)
(M. Cristina Marchetti, GSNP Chair)

DFD and GSNP (the APS topical Group for Statistical and Nonlinear Physics) have been partners for many years, sponsoring a variety of joint activities at the March Meeting, including a Gallery of Images.

If you work in an area at the interface with Nonlinear Dynamics or Statistical Physics we urge you to consider joining the GSNP (while of course remaining a member of DFD). The objective of the Topical Group is to advance and disseminate knowledge in the interdisciplinary areas of equilibrium and nonequilibrium statistical physics and nonlinear dynamics. Our current goal is to achieve the status of Division. This will bring recognition to research

in statistical and nonlinear physics both with funding agencies and within the physics community.

There are several reasons for becoming a member of additional APS units. First, the total membership determines the number of APS Fellowships and Invited Symposia at the March meeting that the unit can sponsor. It also determines the budget of the unit, hence the activities it can undertake.

Recent activities sponsored by GSNP have included:

- A special student award session at the APS March Meeting with prizes for the best student presentations
- A DFD/GSNP Gallery of Images at the DFD annual meeting and at the APS March Meeting, with winning entries published in Chaos magazine.

If you are already a member of GSNP, we thank you for the support. If you are not, please consider joining today at *http://www.aps.org/membership/units/join-unit.cfm*.

Gordon Conference Announcement

This year's Nonlinear Sciences Gordon Research Conference (Sunday, June 24 - Friday, June 29, 2007, Colby College, Waterville, ME) will feature several invited talks of interest to members of the DFD. The topics range from fluid instabilities, disordered systems and pattern formation to nonlinearities in biological systems and dynamic networks. The complete list of topics and invited speakers can be found on the link *http://www.grc.org/programs.aspx?year=2007&program=nonlin*.

Funds are available to support graduate student and post-doctoral travel and for conference registration. To attend you must apply and be accepted. Once accepted, you must then register to attend the conference.

Lobbying Congress for Physics Funding

(Phil Marcus, DFD Vice-Chair)

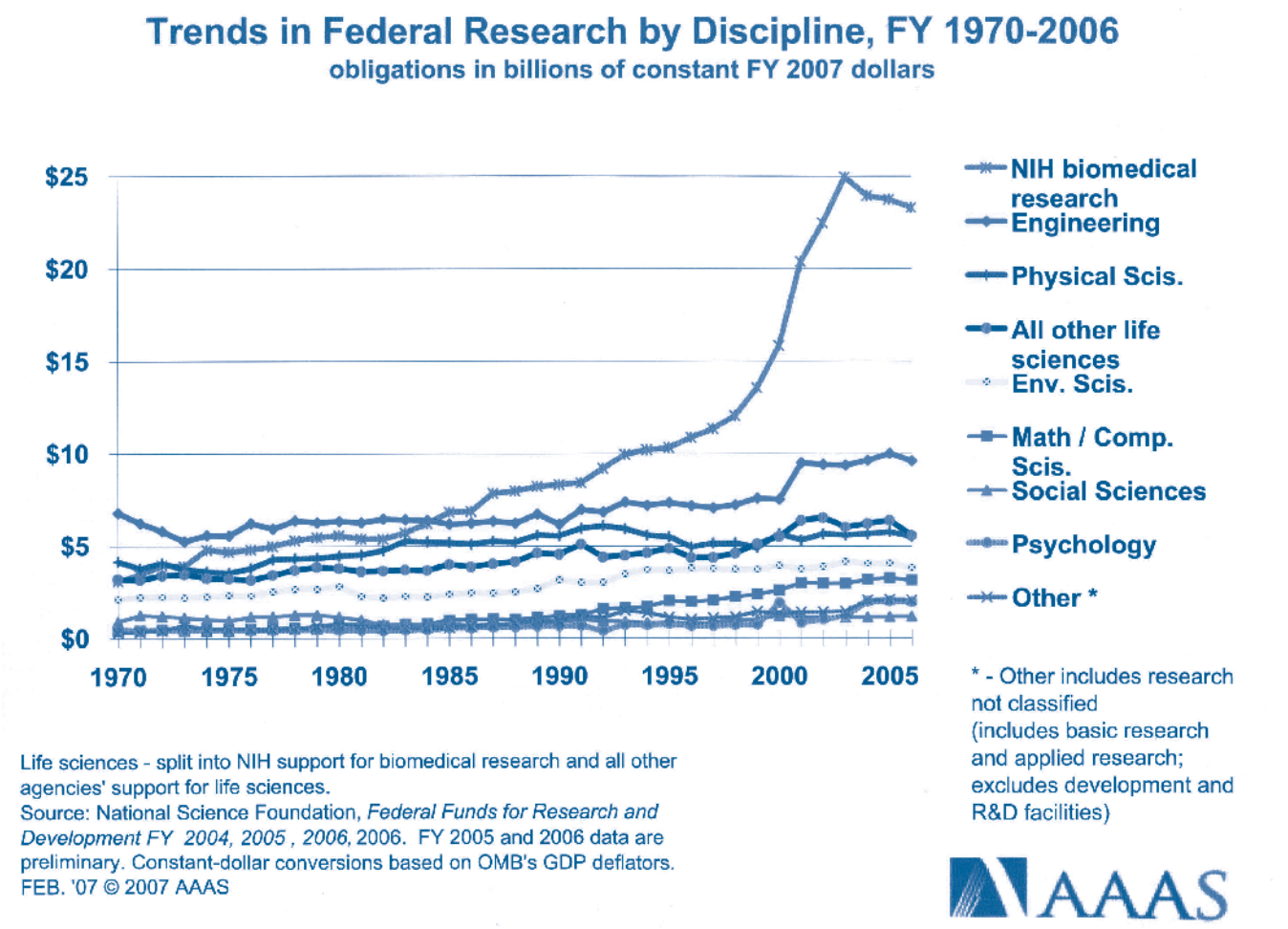
In February 2007 the American Physical Society sponsored a "Congressional Visit Day" in Washington during which officers from the APS met with members of Congress or their staffs. The purpose was to lobby Congress to support fundamental physics by increasing funding for the National Science Foundation, the Department of Energy's Office of Science, and the National Institute of Standards and Technology (NIST).

In the early 1990's, some members of Congress proposed to double the amount of funding for both the biological and physical sciences over a ten-year time span. This did not happen. Between 1990 and 2006, the budget for NIH biomedical research (in constant dollars) nearly tripled, while that of the physical sciences was approximately unchanged.

The Bush administration's stated commitment in the American Competitive Initiative proposes to double the aggregate budgets of the NSF, NIST and DOE's Office of Science. The first small step of this increase occurred last February. Having failed to pass a new budget for most federal agencies before adjourning at the end of 2006, Congress intended to keep funding levels for those agencies frozen. However, just one week before the APS Congressional Visit Day, Congress voted for three exceptions to the budget freeze, one of which increased appropriations for NSF by 5.9% and for the DOE's Office of Science by 5.6%. Through group and individual lobbying it is possible that similar increases in funding will occur over the next decade. If you want to participate, see the suggestions at *www.aps.org* by clicking on the "Policy & Advocacy" link.

Two officers from the Division of Fluid Dynamics, Ellen Longmire and Phil Marcus, participated in this year's lobbying of Congress by the APS by visiting our own elected officials. We found them to be supportive of science, and in most cases at least one staff member was knowledgeable about science policy or had a doctorate in some area of science. We especially targeted Representatives and Senators on the Appropriations Committees responsible for NSF, NIST and DOE funding. Other Members of Congress were asked to sign "Dear Colleague Letters" addressed to the Chairs of the Appropriations Committees, encouraging them to increase the funding of basic science research. We were advised by the APS that lobbying for increased NASA funding was difficult and therefore a low priority for our visits. The split of the NASA budget between scientific research (our concern) and NASA's missions of finishing the International Space Station, creating a replacement vehicle for the Shuttle, and a return to the moon rests within NASA and not with Congress. Although we informed Congress of our concerns that the budget for science within NASA was being badly eroded by the missions, it is not a problem that can be solved by Congress alone. It also requires intervention from the White House.

After spending the day talking to Congress, we and the APS officers from the other Divisions and Groups who participated in Congressional Visit Day were impressed by the lobbying efforts of the APS staff, aided by APS members, and feel that the work is yielding positive results. However, there was a nagging feeling among the fluid dynamicists that we had "won the battle, but lost the war". Although the budget for research in the



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physical sciences has remained nearly flat for the last 10 years, the fraction of the budget devoted to Fluid Dynamics has shrunk. Currently, the funding success rate for proposals submitted to the NSF for research in fluid dynamics is approximately half the success rate for proposals submitted in other areas of the physical sciences. In principle, the allocation of the budget within the NSF is affected by "proposal pressure", meaning that funding in an area of scientific research is proportional to the number of proposals received. In reality, this is not closely followed. Many measures show the number of researchers, of published papers and of submitted proposals in the area of fluid dynamics have increased relative to other areas. For example, during the last four years, the Division of Fluid Dynamics has increased its membership by 67%. This growth is faster than that in any other Division of the APS. The average growth of membership in all APS Divisions was just under 10% during that same period of time. The reasons for the disparity between the funding rate and these statistics are complex and will be a focus for the Executive Committee for the next several years. Suggestions for a course of action are welcome, and should be directed to Jim Brasseur (brasseur@.psu.edu), Lex Smits (asmits@princeton.edu), Michael Plesniak (plesniak@poly.edu), or Phil Marcus (pmarcus@me.berkeley.edu).

APS/DFD 2007 Leadership & Contact Information

DFD members are invited to contact the DFD Leadership with suggestions and concerns.

EXECUTIVE COMMITTEE

Chair
Steve Pope (11/08)

Chair-Elect
Lex Smits (11/09)

Vice-Chair
Philip Marcus (11/10)

Past-chair
Howard Stone (11/07)

Secretary/Treasurer
(3 year term)
Ellen Longmire (11/10)

Division Councillor
(4 year term)
James Brasseur (12/10)

Members-at-Large
(3 years terms with election of 2 new members every year)
Werner Dahm (11/07)
Sandra Troian (11/07)
Paul Steen (11/08)
Minami Yoda (11/08)
Jean Hertzberg (11/09)
Martin Maxey (11/09)

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Roger Bonnecaze (12/07), **Chair**
Sivaram Gogineni (12/07)
Alan Kerstein (12/07)
Michael Schatz (12/07)
Minami Yoda (12/08)
Patrick Weidman (12/08), **Vice-Chair**
Lance Collins (12/08)
Tom Solomon (12/08)
Jim Grotberg (12/07)

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Aline Cotel (12/07)
Eberhard Bodenschatz (12/08)
John Bush (12/08)
Karen Flack (12/08)
Scott Morris (12/08)
Jean Hertzberg (12/09), **Vice-Chair**
Andy Cook (12/09)

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David Kassoy (12/07)
Wolfgang Losert (12/08)
Jim Riley (12/08)
Rich Lueptow (12/09)
Andrew Belmonte (12/09)

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D. Scott Stewart (12/07)
Annick Pouquet (12/08)
Jean-Pierre Hulin (12/08)
S. Balachandar (12/08)
Sutanu Sarkar (12/08)

EXTERNAL AFFAIRS COMMITTEE

Werner Dahm (12/07), **Chair**
Jim Brasseur (12/08)
Kimberly Hill (12/08), **Vice-Chair**
Mike Plesniak (12/09)
Jane Wang (12/09)
John DeBruyn (12/09)
Shiyi Chen (12/09)

SELECTION COMMITTEE FOR 2006 FLUID DYNAMICS PRIZE

Elaine Oran, **Chair** (12/07)
Tom Lundgren (12/07)
Tom Mullin (12/07)
Martin Maxey (12/08), **Vice-Chair**
Dan Lathrop (12/08)
Garth McKinley (12/08)

SELECTION COMMITTEE FOR 2006 ACRIVOS AWARD

Sandip Ghosal (12/07), **Chair**
Mark Shattuck (12/07)
Fabien Waleffe (12/07)
Wendy Zhang (12/07)
Paul Steen (12/08), **Vice-Chair**
Todd Squires (12/08)
Patrick Tabeling (12/08)

FRENKIEL AWARD

Note: One of these members shall be an Associate Editor of Physics of Fluids
Eckart Meiburg (12/07), **Chair**
Mark Femigier (12/07)
Ann Karagozian (12/07)
Sandra Troian (12/08), **Vice-Chair**
Zvi Rusak (12/08)
Manoochehr Koochesfahani (12/08)
Michael Graham (12/08)

Division Website Development Officer

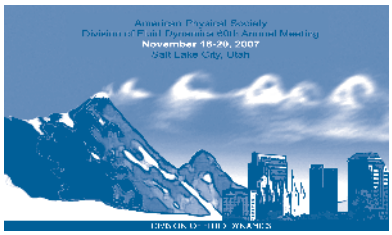
Ken Kiger

Membership Coordinator

Timothy Wei

FOR MORE INFORMATION SEE

http://units.aps.org/units/dfd/
> **Governance**
> **Committee Membership**



AMERICAN PHYSICAL SOCIETY
Division of Fluid Dynamics
One Physics Ellipse
College Park, MD 20740-3844