



A Division of the American Physical Society

THE 67TH ANNUAL DFD MEETING

San Francisco, California November 23–25, 2014



San Francisco Skyline from the Golden Gate Bridge

San Francisco, CA November 23-25, 2014

The 67th Annual Meeting of the American Physical Society's Division of Fluid Dynamics (DFD) will be held in San Francisco, California from November 23rd to 25th, 2014. The meeting is hosted by Stanford University, UC Berkeley and Santa Clara University. NASA Ames Research Center, Lawrence Livermore National Laboratory, Sandia Livermore National Laboratory and Lawrence Berkeley National Laboratory are also helping with the meeting organization. The meeting will be held at the Moscone West Center.

Meeting Venue

The Moscone Center is the largest convention and exhibition complex in San Francisco, California. It is comprised of three main halls of which the Moscone West will house the APS/DFD 2014 meeting.

Located conveniently in the South of Market area, the center provides easy access to downtown San Francisco's many restaurants, as well as major transportation systems such as BART and Muni Metro.

The Center is within walking distance to hotels that have been carefully selected for this meeting offering attractive rates to attendees.

San Francisco

San Francisco is often called "Everybody's Favorite City," a title earned by its scenic beauty, cultural attractions, diverse communities, and world-class cuisine. Measuring 49 square miles, this very walkable city is dotted with landmarks like the Golden Gate Bridge, cable cars, Alcatraz and the largest Chinatown in the United States. A stroll of the City's streets can lead from Union Square to North Beach to Fisherman's Wharf, with intriguing neighborhoods to explore at every turn. Views of the Pacific Ocean and San Fran-

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The articles in this issue represent the views of the Division of Fluid Dynamics (DFD) publication committee and are not necessarily those of individual DFD members or the APS.

cisco Bay are often laced with fog, creating a romantic mood in this most European of American cities.

For more information on this city, please visit:

<http://www.sanfrancisco.travel/>

Housing and Meeting Registration

Registration for the meeting and housing information is available through the meeting web site:

<http://apsdfd2014.stanford.edu>

APS/DFD has negotiated discounted hotel rates for meeting attendees next to the convention center. You should make your hotel reservation after completing your on-line registration for the meeting or by going to the hotel section of the website (located under the information tab) and clicking on the link provided. Hotel reservations are taken on a first-come space-available basis. Submit your request as soon as possible for the best opportunity of receiving your hotel choice.

2014 DFD Contracted Hotels

Please Note: The meeting budget depends upon you reserving rooms at these hotels. Please go to the meeting website: <http://apsdfd2014.stanford.edu> and click on the HOTEL RESERVATION LINK found on the Home Page.

The San Francisco Marriott Marquis Hotel

Next door to Convention Center

\$149.00 Single/Double

\$169.00 Triple

\$189.00 Quad

Student Rate (must show student id at check in)

\$129.00 Single/Double (limited rooms available)

\$149.00 Triple

\$169.00 Quad

Intercontinental San Francisco

Next door to the Convention Center

\$149.00 Single/Double/Triple/Quad

NOTE: Rates do not include taxes and fees which are currently 14% tax, 2.25% SF Tourism Fee, and \$0.10 Commerce Fee per day.

Registration

Registration is now open! To register go to:

<http://apsdfd2014.stanford.edu> and click on the REGISTRATION LINK found on the home page.

2014 Rates	Early (thru 9/15)	Regular (9/16–10/22)	Late & On-Site (10/23–11/25)
Full Member	\$440	\$510	\$690

2014 Rates	Early (thru 9/15)	Regular (9/16–10/22)	Late & On-Site (10/23–11/25)
Reciprocal Society Member	\$440	\$510	\$690
Non-Member	\$695	\$755	\$835
Retired (with APS Senior Membership)	\$235	\$255	\$340
Undergraduate Student	\$85	\$85	\$120
Graduate Student	\$235	\$255	\$340
Reception Ticket	\$100	\$100	\$100

Key Dates

Registration Deadlines

Early Registration Rate

on or before Sept 15th 2014

Regular Registration Rate

Sept 16th – Oct 22nd 2014

On-Site Registration Rate

Oct 23rd – Nov 25th 2014

Please note, you will still be able to register on-line until Friday, Nov 20, however after Oct. 22nd it will be at the on-site rate.

Cancellation Deadline

(no registration refunds past this date):

Nov 8th 2014

Hotels

Reduced Rate Ends Oct 22nd 2014

Abstract Submission Deadline

Aug 1st 2014

Travel Grant Application Deadline

Aug 1st 2014

Child Care Application Deadline

Aug 1st 2014

Gallery of Fluid Motion (GFM)

Intent to Submit GFM Poster or GFM

Video Deadline

Sept 15th 2014

Video Submission Deadline

Oct 6th 2014

GFM Poster

Bring to meeting

Scientific Program

The scientific program will include four award lectures and eight invited lectures along with minisymposia, focus sessions, contributed papers, poster sessions including student poster competition, exhibits and the Gallery of Fluid Motion poster and video entries. Over 2300 contributed abstracts, divided into more than 33 concurrent sessions, are anticipated.

Awards Program

Each year the APS Division of Fluid Dynamics presents the Fluid Dynamics Prize, the Francois Frenkiel Award, the Andreas Acrivos Dissertation Award, and the Stanley Corrsin Award. The 2014 award winners, each one of whom will give a lecture at the meeting, will be announced in the Fall.

Invited Lectures, Minisymposia, and Focus Sessions

Eight invited lectures on topics of broad interest to the DFD community will be given by experts in each field. The program also includes minisymposia and focus sessions dealing with exciting current research.

Gallery of Fluid Motion

The 32nd Annual Gallery of Fluid Motion will be held as part of the meeting. The Gallery consists of posters and videos submitted by attendees illustrating the science—and very often also the beauty—of fluid motion. Both computational and experimental entries are encouraged. Poster and video entries must not duplicate one another. Outstanding posters and videos, selected by a panel of referees, will be recognized during the meeting, will be displayed at the Annual APS meeting in March, 2015 and will appear in the September, 2015 issue of the *Physics of Fluids*. Please see the meeting web site for information on how to submit Gallery of Fluid Motion entries. New submission procedures will be available late July.

Posters

The number of poster research contributions to the Annual DFD Meeting has been growing over the past few years with 101 posters submitted in 2013. In order to showcase this part of the meeting, DFD launched its first Student Poster Session in 2012 and the meeting will continue this tradition in 2014. The Poster Session will be held preceding the Sunday night reception. Student posters will be judged and awarded 1st and 2nd Prize for “Best Poster” in several categories. Winners in each category will receive cash awards and will be highlighted in the DFD Newsletter. While the Poster Session of the DFD Meeting is open

to all participants, the Poster Competition will constitute a specific opportunity for graduate and undergraduate students to enhance their presentation skills and to build their professional network.

Travel Awards

The APS-DFD External Affairs Committee has instituted a new category of enabling travel grants for the 2014 meeting, designed to provide full support for attendance by a select few scientists (all researchers are eligible). Priority will be given to researchers who would not otherwise be able to attend the meeting, for whom the meeting comes at a timely point in their career and who have not previously attended a DFD meeting (applicants should address these points in their application). Applications must be received by the abstract submission deadline: **August 1, 2014 at 5:00 pm EDT**. Further details can be found under the Travel Grants tab on the Information page at the conference website.

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 with technicians will be available to help attendees ensure that their presentations work smoothly with the LCD projection equipment.

Exhibitor and Sponsorship Opportunities

Exhibits will be centrally located in the Lobby Area near the refreshments in the Moscone West Center.

For more information on exhibits or sponsorship, please email Margaret McDonald at:

Margaret2@Meetingsandmore.net

Conference Reception

The Conference Reception will be held at the Moscone West Center on Sunday evening, November 23, 2014. The reception is included in the registration fee for those who register as APS Members, Nonmembers, Graduate Students, and Retired Members. Additional tickets may be purchased for \$100 each.

Registration

INTERNET:
<http://apsdfd2014.stanford.edu/?q=content/registration>

Questions can be directed to:
help@orchideventsolutions.com

Meeting Hosts

The meeting is hosted by:
Stanford University

with participation from:

UC Berkeley
Santa Clara University
NASA Ames Research Center
Lawrence Livermore National Laboratory
Sandia Livermore Laboratory
Lawrence Berkeley National Laboratory

Meeting Chairs**Sanjiva K. Lele**

Meeting Chair
Professor
Department of Mechanical Engineering and
Department of Aeronautics & Astronautics
Stanford University
(650)723-7721
lele@stanford.edu

Gianluca Iaccarino

Meeting Co-Chair
William R. and Inez Kerr Bell Faculty Scholar
Associate Professor, Mechanical Engineering & ICME
Stanford University
(650)723-9599
jops@stanford.edu

Abstract Submissions**Donald Mewha**

Scientific Program Coordinator
APS
(301)209-3285
mewha@aps.org

Meeting Information General Information

Peggy Holland
Meetings and More
Phone: (301)641-4150
peggy@meetingsandmore.net

Monica Malouf
Meetings and More
Phone: (301)526-8129
monica@meetingsandmore.net

Registration

Katie McLaughlin
Orchid Solutions
Phone: (801)505-4102
katie@orchideventsolutions.com

Exhibiting and Sponsorship Information

Margaret McDonald
Meetings and More
Phone: (240)355-5608
margaret2@meetingsandmore.net

2014 Meeting Website

<http://apsdfd2014.stanford.edu/>

Future APS/DFD Meetings**2015: Boston, MA**

Professor Triantaphyllos Akylas, Meeting Chair
Massachusetts Institute of Technology

2016: Portland, OR

Professor Raul Cal, Meeting Chair
Portland State University

2017: Denver, CO

Professor Jean Hertzberg, Meeting Chair
University of Colorado, Boulder

2018: Atlanta, GA

Professor P.K. Yeung, Meeting Chair
Georgia Institute of Technology
Professor Donald Webster, Co-Chair
Georgia Institute of Technology

APS/DFD 2013 Awards, Prizes, New Fellows, and Gallery Winners

**2013 Fluid Dynamics Prize**

Elaine S. Oran, University of Maryland, formerly at the United States Naval Research Laboratory, is the recipient of the 2013 Fluid Dynamics Prize, which recognizes major contributions to fundamental fluid dynamics made during a career of outstanding work. The citation reads: "For seminal contributions to the understanding of reactive flows through computer simulations, especially the deflagration-to-detonation transitions in gases and supernovae."



2013 Stanley Corrsin Award

Michael P. Brenner, Harvard University, is the recipient of the 2013 Stanley Corrsin Award which is given to recognize and encourage a particularly influential contribution to fundamental fluid dynamics. The citation reads: "For his intellectual leadership in fluid dynamics and in particular for his seminal contributions to electro-hydrodynamics and droplet splashing."



2013 Andreas Acrivos Dissertation Award

Bishakhdatta Gayen, Australian National University, received the Andreas Acrivos Dissertation Award for his thesis entitled "Turbulence and Internal Waves in Tidal Flow over Topography." The award recognizes an exceptional young scientist for original, outstanding doctoral thesis work in fluid dynamics done in the United States. Dr Gayen did his doctoral thesis work at the University of California, San Diego under the direction of Prof. Sutanu Sarkar.



2013 Francois Frenkiel Award

Diego Donzi, Texas A&M University, is the recipient of the Francois Frenkiel award. The award is given in recognition of significant contributions to fluid mechanics that have been published in *Physics of Fluids* during the preceding year by young investigators. His article "Shock Structure in Shock-Turbulence Interactions," *Phys. of Fluids* 24, 126101, was selected for its potential impact in high-speed turbulent flows.



2013 APS Apker Award for Outstanding Undergraduate Research

Guy Gyer Marcus, Wesleyan University received the American Physical Society's Apker Award for Outstanding Undergraduate Research for his thesis entitled "Rotational Dynamics of Anisotropic Particles in Turbulence: Measurement of Lagrangian Vorticity and the Effects of Alignment with the Velocity Gradient". Guy's thesis adviser was Prof. Greg Voth

2013 Division of Fluid Dynamics Fellows

Each year the number of new Fellows is limited to be no more than $\frac{1}{2}$ of 1% of the membership. The new 2013 Fellows are:



Kenneth Christensen University of Illinois, Urbana-Champaign

For his fundamental and innovative contributions to the understanding of wall turbulence, including the character of span-wise vortices and the effects of surface roughness, the behavior of microfluidic systems, and the development of new PIV instruments.



Noel Clemens University of Texas, Austin

For the development and application of innovative experimental methods leading to fundamental understanding of shear flow mixing, turbulent flame structure and supersonic unsteady flows.



Jimmy Feng University of British Columbia

For pioneering studies of solid-liquid two-phase flows, interfacial dynamics of complex fluids, and phase-field modeling of the moving contact line.



John Foss
Michigan State University

For fundamental experimentation of complex flows, novel surface topology analyses and for ground-breaking vorticity measurements.



Rama Govindarajan
Tat Institute of Fundamental Research

For contributions to our understanding of laminar-turbulent transition, especially in viscosity-stratified flows.



Thomas Jackson
University of Illinois, Urbana-Champaign

For pioneering research in reacting flows, especially stability analysis of compressible shear flows, and modeling and simulation of complex heterogeneous solid propellant combustion.



Yogesh Jaluria
Rutgers University

For pioneering and lasting contributions to a wide variety of fundamental and applied areas in fluid mechanics, particularly buoyancy-induced flows, computational fluid dynamics, microscale transport, fluid flow phenomena in materials processing, the spread and growth of fires in enclosed spaces, and environmental flows.



Arne Johansson
Royal Institute of Technology

For pioneering and lasting contributions, using theory, numerical simulation and experiment, to our understanding of turbulent flows and turbulence modeling.



Patrice Le Gal
CNRS

For original experimental research in geophysical fluid dynamics, notably the strato-rotational and elliptic instabilities, and for experimental research in pattern formation in Rayleigh-Taylor convection, in wakes, and in fluids between rotating disks.



Jeffrey Morris
CUNY-CCNY

For outstanding research in the flow of multi-phase mixtures, including the development of nonequilibrium structures in Stokes flow, constitutive modeling and bulk flow analysis, measurement of particle pressure, and elucidating the influence of particle-scale inertial on rheology and flow.



Ranga Narayanan
University of Florida, Gainesville

For seminal contributions in research and education in the field of interfacial instabilities and for work in generating novel and revealing experiments on pattern formation.



Thomas Powers
Brown University

For pioneering, rigorous and creative contributions to our understanding of the dynamics of membranes and filaments in viscous flows, particularly regarding the theory of bacterial motility in viscous and viscoelastic media and the role of hydrodynamic interactions at low Reynolds number.



Alfredo Soldati
University of Udine

For his contributions to our understanding of the role of turbulence in multiphase flow processes and for nurturing and promoting the teaching and study of multiphase flow phenomena.



Hyung Jin Sung
KAIST

For contributions to turbulence, fluid-structure interaction and opto/micro fluidics to find fundamental physics of these flows and their applications using various numerical and experimental techniques.



Roberto Verzicco
University of Roma

For his seminal contribution to the development of algorithms for direct numerical simulation of thermally driven turbulence, vortex flows, and complex flows, for the resulting deep physical understanding of these flows, and for his collaborative attitude which has strongly served the fluid dynamics community.



Jorge Vinals
University of Minnesota

For his contributions to pattern formation in nonequilibrium systems, especially quasi crystalline patterns in Faraday waves, domain coarsening in modulated phases, and the general study of coarse grained fluids described by an order parameter.



Steven Wereley
Purdue University

For pioneering contributions to the development of microPIV and microfluidics, authoring broadly-based monographs on PIV and microfluidics, and meritoriously representing the fluid dynamics community in the deepwater Horizon Oil Spill.



Jose Wesfreid
ESPCI

For pioneering experiments in pattern formation as well as transition and flow control, and for scientific leadership in France and building partnerships with Latin America.

The 2013 Gallery of Fluid Motion and the Milton Van Dyke Award Winners

As has long been our tradition, the best poster and best videos were chosen from amongst the entries at the 2013 DFD meeting in Pittsburgh. The top three from each category were awarded the Milton Van Dyke Award for fluid flow visualization.

Milton van Dyke Award Winners (Video) (3)

The Life of a Vortex Knot

Dustin Kleckner, Martin Scheeler, William T. M. Irvine

Ignition Sequence of an Annular Multi-Injector Combustor

Maxime Philip, Matthieu Boileau, Ronan Vicquelin, Thomas Schmitt, Daniel Durox, Jean-François Bourgoin, Sébastien Candel

Catastrophic Cracking Courtesy of Quiescent Cavitation

D. Jesse Daily, Ken Langley, Scott L. Thomson, Tadd T. Truscott

Milton van Dyke Award Winners (Poster) (3)

Rayleigh-Taylor Instability in Artistic Creation

Elsa de la Calleja, Sandra Zetina, Roberto Zenit

Formation and Evolution of Cylindrically Diverging Detonation Waves in Gases

Duowen Qian, John H.S. Lee, Hoi Dick Ng

Boundary Layer Bypass Transition,

Xiaohua Wu, Parviz Moin, Jean-Pierre Hickey

Gallery of Fluid Motion Award Winners (Video) (3)

Acoustophoretic Waltz: A Contactless Exothermal Reaction

Daniele Foresti, Dimos Poulikakos

Elastic Swimmer on a Free Surface

Sophie Ramananarivo, Benjamin Thiria, Ramiro Godoy-Diana

Dancing Droplets

Nate J. Cira, Manu Prakash

Gallery of Fluid Motion Award Winners (Poster) (3)

Joëly Christmas: Induced Drift by Juvenile Jellyfish

Janna Nawroth, John Dabiri

Bubbles in Complex Microgeometries at Large Capillary Numbers,

Martin Sauzade, Thomas Cubaud

The Morning Glory: Flow Visualization by Mother Nature

Zaim Ouazzani, Jorg Hacker, Rob Thompson, Thomas Peacock

Highlights of the 66th Annual DFD Meeting in Pittsburgh, Pennsylvania

The 2013 DFD meeting was held in November at the David L. Lawrence Convention Center in Pittsburgh, Pennsylvania. This meeting was one of the largest in DFD history, with over 2,300 contributed abstracts in 34 parallel sessions, 128 Gallery of Fluid Motion entries, and 101 posters from around the world of which 42 were part of the student poster competition.

In addition to the contributed abstracts, there were 4 award lectures and 8 invited talks.

Elaine Oran of the University of Maryland and Emeritus, United States Naval Research Laboratory, winner of the 2013 Fluid Dynamics Prize, gave the Otto Laporte Lecture entitled "The Reactive Flow of Ideas."

Michael Brenner, Harvard University, winner of the Stanley Corrsin Award, gave the lecture entitled "Fluid Mechanics of Fungi and Slime."

Bishakhdatta Gayen, Australian National University, winner of the 2013 Andreas Acrivos Dissertation Award gave the lecture entitled "Turbulence and Internal Waves in Tidal Flow over Topography."

Diego Donzis, Texas A & M University, winner of the Francois N. Frenkiel Award, gave the lecture entitled "Shock Structure in Shock-Turbulence Interactions."

Karen Flack, United States Naval Academy, gave the lecture entitled "Roughness Effects on Wall-Bounded Turbulent Flows."

Anke Lindner, PMMH-ESPCI, gave the lecture entitled "Microfluidic Flows of Complex Suspensions: from Flexible Polymers to Swimming Bacteria."

John Dabiri, California Institute of Technology, gave the lecture entitled "Do Swimming Animals Mix the Ocean?"

William Sirignano, University of California, Irvine, gave the lecture entitled "Dynamics of Transient Liquid Injection."

John Lister, University of Cambridge, gave the lecture entitled "Porous-Medium Convection: New Problems from CO₂ Sequestration."

Michael Graham, University of Wisconsin-Madison, gave the lecture entitled "Drag Reduction and the Dynamics of Turbulence in Simple and Complex Fluids."

Ann Karagozian, University of California, Los Angeles, gave the lecture entitled "Transverse Jet Shear Layer Instabilities and their Control."

Daniel Goldman, Georgia Tech, gave the lecture entitled "Swimming and Running through Sand: Resistive Force Theory in Granular Media."

There were three Minisymposia:

Nanobubbles

Global Climate Models: Dynamical Cores, Strengths and Weaknesses

Frontiers in Combustion Physics

There were two Focus Sessions:

Marine Hydrokinetic Energy Conversion

Structure of Turbulent/Non-Turbulent Interfaces

Notably, the **second student poster competition** was held this year. There were 42 posters submitted. The Poster Competition was an opportunity for undergraduates and graduates to refine their presentation skills and develop their network. Our congratulations to the winners:

Energy and Applications

1A.07 "International Senior Design Service Learning Project: Creating a Water System for Kuna Nega in Panama City, Panama." Dan Budny, University of Pittsburgh.

Jets, Acoustics, and Shockwaves

1A.17 "Characteristics of Fluid Structure Interaction in a Turbulent Wake." G. Dowell, Penn State.

Biological, Micro, and Complex Fluids

1A.27 "On the Heat Transfer and Flow of a Non-homogeneous Fluid." Joseph Fiordilino, Montclair State University.

Turbulence, Stability, and Fluid-Structure Interaction

1A.37 "Equilibrium Configurations of a Fiber in a Flow." Pamela Guerron, Montclair State University.

Announcement

USNC/TAM provides partial sponsorship for AmeriMech symposia, which are intended to promote interactions among researchers in an area of contemporary interest in the mechanics of fluids and solids. It is expected that symposia will address topics of a specialized nature, will be small in size (about 50 participants) with minimal cost, have informal setting, encourage participation of young researchers, and promote interdisciplinary ideas and discussions. The deadline for proposals for AmeriMech Symposia is July 31. Please refer to this link for more information:

http://sites.nationalacademies.org/PGA/biso/IUTAM/PGA_086043

APS/DFD 2013-2014 Leadership & Contact Information

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

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Elaine Oran
2013 Prize Recipient

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**DIVISION WEBSITE
DEVELOPMENT OFFICER**
Jeff Eldredge

**GALLERY OF FLUID
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