



A Division of the American Physical Society

DFD2018 ATLANTA
 71st Annual Meeting of the
 American Physical Society
 Division of Fluid Dynamics
 November 18-20

**Atlanta, GA
 November 18-20, 2018**

The 71st Annual Meeting of the American Physical Society's Division of Fluid Dynamics (DFD) will be held in Atlanta, GA on November 18-20, 2018. The meeting is being hosted by Georgia Institute of Technology, Auburn University, Clemson University, Emory University, University of Alabama at Birmingham, University of Georgia and Vanderbilt University. The meeting will be held at the Georgia World Congress Center in Atlanta, GA.

Meeting Venue

Atlanta, Georgia's state capital since 1877, is steeped in the history of the Civil War and the civil rights movement. Today Atlanta is a vibrant, sophisticated, forward-looking city, a major airline hub, a sports center and a focal point for US corporate headquarters.

Located in the heart of downtown Atlanta, the Georgia World Congress Center Authority — which includes the 3.9 million-square-foot convention center, 21-acre Centennial Olympic Park, College Football Hall of Fame, Junior Achievement Discovery Center and state-of-

the-art Mercedes-Benz Stadium — is the No. 1 convention, sports and entertainment destination in the world. The center connects to the CNN Center, CNN's world headquarters, and is in close proximity to the Georgia Aquarium, site of the APS-DFD 2018 Reception, and walking distance to the World of Coca Cola, a museum tracing the history of Coke.

Hotel Accommodations

Detailed Hotel information is available through the meeting web site:

<http://apsdfd2018.gatech.edu>

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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.



Atlanta Skyline

The APS DFD Housing Bureau will start accepting reservations on **June 4th** for the Annual APS DFD Meeting in Atlanta, Georgia. There are several great hotel options for your stay in Atlanta during the annual meeting. All hotels are in walking distance to the Georgia World Congress Center and are located around Centennial Olympic Park and near the Georgia Aquarium.

You can book, modify or cancel your hotel reservation anytime using the APS DFD housing website. A valid credit card is needed to guarantee your reservation. The discounted hotel rates are available until **October 14th** or until the room blocks at the conference hotels are sold out. Reservations need to be cancelled 72 hours prior to arrival to avoid a cancellation fee equal to one night room and tax (16.9% + \$5). We look forward to seeing you in Atlanta in November!

You may make a reservation at any of the contracted hotels by going to our housing website on or after June 4, 2018.

<https://book.passkey.com/e/49610416>

Or by contacting:

APS DFD Housing Bureau

Hours: Monday - Friday from 8:30am to 5:00pm PT

Toll Free: 1-877-226-1859

2018 APS DFD Hotel List

**Omni Hotel at CNN Center
(connected to the Convention Center)**

100 CNN Center, Atlanta, GA 30303

Rates (excluding 16.9% + \$5 Lodging Tax/fees):

\$140 + Tax: Single/Double Room Occupancy

\$160 + Tax: Triple Room Occupancy

\$180 + Tax: Quad Room Occupancy

Student rate available starting at \$124 per night, plus tax.

Rates include complimentary internet provided guests are members of the Omni's complimentary rewards program (which can be joined at time of check-in).

The American Hotel Atlanta Downtown - a DoubleTree by Hilton (.6 miles from Convention Center)

160 Ted Turner Drive NW, Atlanta, GA 30303

Rates (excluding 16.9% + \$5 Lodging Tax/fees):

\$139 per night + Tax for Single Room Occupancy

\$149 per night + Tax for Double Room Occupancy

\$159 per night + Tax for Triple Room Occupancy

\$169 per night + Tax for Quad Room Occupancy

Rates include complimentary high-speed internet.

**Embassy Suites Atlanta at Centennial Park
(.4 miles from Convention Center)**

267 Marietta Street NW, Atlanta, GA 30313

Rates (excluding 16.9% + \$5 Lodging Tax/fees):

\$149 per night + Tax for Single Room Occupancy

\$169 per night + Tax for Double Room Occupancy

\$189 per night + Tax for Triple Room Occupancy

\$209 per night + Tax for Quad Room Occupancy

Rates include complimentary high-speed internet, daily Cooked to Order Breakfast and Evening Manager's.

**Hilton Garden Inn Atlanta Downtown
(.5 miles from Convention Center)**

275 Baker Street, Atlanta, GA 30313

Rates (excluding 16.9% + \$5 Lodging Tax/fees):

\$139 per night + Tax for Single Room Occupancy

\$149 per night + Tax for Double Room Occupancy

\$159 per night + Tax for Triple Room Occupancy

\$169 per night + Tax for Quad Room Occupancy

Rates include complimentary high-speed internet.

**Holiday Inn Express & Suites Atlanta Downtown
(.6 miles from Convention Center)**

111 Cone Street NW, Atlanta, GA 30303

Rates (excluding 16.9% + \$5 Lodging Tax/fees):

\$129 per night + Tax for Single/Double Room Occupancy

\$139 per night + Tax for Triple Room Occupancy

\$149 per night + Tax for Quad Room Occupancy

The Westin Peachtree Plaza

(.6 miles from Convention Center)

210 Peachtree Street NW, Atlanta, GA 30303

Rates (excluding 16.9% + \$5 Lodging Tax/fees):

\$140 per night + Tax for Single/Double Room Occupancy

\$160 per night + Tax for Triple/Quad Room Occupancy

Rates include complimentary high-speed internet.

Registration

Registration Opens Early June

Please visit the meeting website to register for the 2018 APS-DFD Meeting:

<http://apsdfd2018.gatech.edu>

Please note that all international registrants will automatically receive a "Letter of Invitation" when they register for the meeting.

Registration Type	Received on/before 9/16	Received between 9/17 - 10/21	Received between 10/22 - 11/20
Member	\$485	\$555	\$735
Reciprocal Society Member	\$485	\$555	\$735
Non-Member	\$740	\$800	\$880
Retired Member (with APS Senior Membership)	\$275	\$295	\$380
Graduate Student Member**	\$265	\$285	\$375
Undergraduate**	\$110	\$110	\$155
Additional Reception Ticket	\$100	\$100	\$100

**Graduate/Undergraduate Students who are not APS Members must pay the nonmember rate unless joining at the time of registration. First year membership is free for first time students and includes (2) free Divisions or Topical Groups for all students. Undergraduate registrations do not include a ticket to the Sunday night reception. Reception tickets may be purchased for \$100.

In addition, when you register for the meeting or submit your abstract, if you are not now a member of the Division of Fluid Dynamics, please consider signing up. It is only a \$10 per year addition to the APS membership fee. DFD membership allows you to receive more targeted DFD communications and enables DFD to better represent the interests and views of fluid dynamics within the broader APS structure. For more information go to:

<https://www.aps.org/memb-sec/join/startpage.cfm>

Key Dates

Registration Deadlines

Early Registration Rate

on or before Sept 16, 2018

Regular Registration Rate

Sept 17 – Oct 21, 2018

On-Site Registration Rate

Oct 22 – Nov 20, 2018

Cancellation Deadline

(no registration refunds past this date)
Nov 7, 2018

Hotel Reduced Rate Ends

Oct 14, 2018 or earlier if block sells out

Abstract Submission Deadline

Aug 1, 2018

Travel Grant Application Deadline

Aug 1, 2018, 5:00 PM EDT

Child Care Grant Application Deadline

Aug 1, 2018, 5:00 PM EDT

Grants for Participants with Disabilities Deadline

Aug 1, 2018, 5:00 PM EDT

Gallery of Fluid Motion (GFM)

GFM Poster and Video Submission

Entries Must be Submitted Prior to Sep 14, 2018

Video Uploading Deadline

Oct 5, 2018

GFM Poster

Bring to meeting

New Abstract Handling Software for DFD 2018 Meeting

APS is in the process of phasing out the abstract submission system that has been in place for nearly twenty years. Much of the submission process will remain the same, aside from a different user interface. All of the APS rules and guidelines for submissions will still apply.

One of the primary differences that you will see this year is a requirement for a submitter to have a web account. Most APS members and some prior meeting attendees already have one. Please note that a web account is different from an APS membership. A web account is free and simply allows APS the ability to better coordinate submissions, RSVPs, registration, and the mobile app.

If you do not already have a web account, we encourage you to create one by visiting: <https://www.aps.org/memb-sec/membership/NewUserMain.cfm>. Also, we encourage you to submit your abstract early due to the new system.

Scientific Program

The scientific program will include four award lectures and eight invited lectures. In addition, there will be a series of minisymposia, focus sessions and a technical poster session. Students submitting a poster may enter the Student Poster Competition. The program will also include the Gallery of Fluid Motion with both video and poster entries as well as a select number of exhibitors. It is anticipated that there will be more than 3000 contributed abstracts in 2018.

Awards Program

Each year the APS Division of Fluid Dynamics presents the Fluid Dynamics Prize, the François N. Frenkiel Award, the Andreas Acrivos Dissertation Award and the Stanley Corrsin Award. The 2018 award winners, each 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 will also include Minisymposia and Focus Sessions dealing with exciting current research.

Posters

The number of poster research contributions to the Annual DFD Meeting has been growing over the past few years with over 130 technical posters submitted in 2017 and 19 Student Posters.

The Technical Poster Session will be held on Monday, November 19th during the afternoon refreshment break in the Exhibit Hall. Those posters designated as Student Posters will be judged and awarded 1st and 2nd Prize for “Best Poster” in several categories. First and second place winners in each category will receive cash awards and certificates. Awardees will also be highlighted in the DFD Newsletter. While the Technical Poster Session of the DFD Meeting is open to all participants, the Student Poster Competition will constitute a specific opportunity for graduate and undergraduate students to enhance their presentation skills and to build their professional network. Student posters must be hung by noon on Sunday, November 18 to be eligible for Awards.

Gallery of Fluid Motion

The 37th 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, selected by a panel of referees, will be recognized during the meeting, will be displayed at the Annual APS meeting in March, 2019, and will appear in the September 2019 issue of the *Physical Review Fluids*. Please note that the videos will be accessible on-line at gfm.aps.org.

Travel Grants, Child Care Grants and Grants for Participants with Disabilities

In 2014 the APS-DFD External Affairs Committee instituted a new category of enabling travel grants for the DFD meeting, designed to provide full support for attendance for 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 5:00 pm EDT on August 1, 2018. Further details can be found on the conference website under Travel Grants.

DFD has also instituted a special child care grant program designed to provide financial assistance to APS/DFD members who will have additional child care expenses in order to attend and participate in the annual November meeting. The deadline is 5:00 pm EDT on August 1, 2018. More details can be found on the meeting website under Child Grants.

DFD has initiated a pilot program of grants to assist conference participants with disabilities. The program is designed to provide financial assistance to APS/DFD members who will have to incur additional expenses due to disability to enable them to participate in the annual November meeting. The application deadline is 5:00 pm EDT on August 1, 2018. More details can be found on the conference website (page: Assistance for Participants with Disabilities).

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. We suggest all presenters visit the Speaker Ready Room in advance of their presentation.

Note: Meeting room projectors will have 1920 by 1200 resolution. Please set your laptop resolutions to 1920 by 1200 (16×10 format). Your images will not display properly if your laptop resolution is higher than the projector's. The projectors are capable of supporting presentations at a lower resolution including presentations in a 4×3 format.

Exhibitor and Sponsorship Opportunities

Exhibits will be centrally located in Exhibit Hall B of the Georgia World Congress Center.

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

margaret2@meetingsandmore.net

Conference Reception

This year the DFD Conference Reception will be held at the Georgia Aquarium, recognized as a Top Aquarium in the U.S. by Trip Advisor. With more than 10 million gallons of fresh and marine water and more aquatic life than found in any other aquarium, you are sure to see things you've never seen before! Georgia Aquarium promises

wonder and excitement around every corner and will be a great venue for the 2018 APS-DFD Reception and a great place to catch up with others in the field and make new connections.

The reception is included in the registration fee for those who register as APS Members, Nonmembers, Graduate Students, and Retired Members. Undergraduate students and guests may purchase tickets for \$100 each.

Meeting Co-Chairs

P.K. Yeung

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Donald Webster

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Abstract Submissions

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Registration

Kristi Despain Woolston

Orchid Events
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kristi@orchid.events

Exhibitor Information and Website Updates

Margaret McDonald

Meetings and More
Phone: (240) 355-5608
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Housing and Special Events

Monica Malouf

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

General Meeting Questions

Peggy Holland

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

Future APS/DFD Meetings

2019: Seattle, WA

Alberto Aliseda, Meeting Co-Chair
Dana Dabiri, Meeting Co-Chair
University of Washington

2020: Chicago, IL

Jonathan Freund, Meeting Chair
University of Illinois Urbana-Champaign

2021: Phoenix, AZ

Marcus Hermann, Meeting Chair
Arizona State University

2022: Indianapolis, IN

Luciano Castillo, Meeting Chair
Purdue University

2023: Washington, DC

Kenneth Kiger, Meeting Co-Chair
University of Maryland
Michael Plesniak, Meeting Co-Chair
George Washington University

Message from Eckart Meiburg, 2017-18 Chair of the APS Division of Fluid Dynamics



Welcome to the latest edition of the Division of Fluid Dynamics newsletter. Our Division continues to enjoy healthy growth in its membership, and participation at our annual meeting keeps setting new records. You can find a summary of some of the highlights of last year's 70th Annual DFD Meeting in Denver in this newsletter, along with information on the upcoming 2018 DFD Meeting in Atlanta.

At the same time, we are all aware of the current political challenges to science funding. In response to these challenges, APS has increased its efforts to educate the general public on issues that affect both the physics community and the nation as a whole. It is essential that we support APS in these efforts by communicating to our lawmakers the importance of such topics as federal research funding, research infrastructure, STEM education and others. You can find more information on corresponding APS initiatives at <https://www.aps.org/policy/index.cfm>.

I encourage you to nominate your deserving colleagues for APS/DFD prizes and awards, as well as for APS Fellowships. These distinctions, which should reflect the increasingly diverse membership of our division, recognize lasting contributions to the field of fluid dynamics.

Finally, I would like to thank the many members who support our community, either by serving on APS/DFD committees, by hosting our Annual Meeting, by serving as editors or referees for our journals, or in countless other ways. Their efforts and commitment are essential for the continued vibrancy of our fluid dynamics community.

APS/DFD 2017 Awards, Prizes, New Fellows, and Gallery Winners



2017 Fluid Dynamics Prize

Detlef Lohse, University of Twente, was the recipient of the 2017 Fluid Dynamics Prize, which recognizes major contributions to fundamental fluid dynamics made during a career of outstanding work. The citation reads, "For profound and wide-ranging contributions to our understanding of fluid turbulence, multiphase flow, and granular flows; for outstanding contributions to the teaching and training of future fluid dynamicists; and for long-standing service to the international fluid dynamics community."



2017 Stanley Corrsin Award

Jens Eggers, University of Bristol, was the seventh recipient of the Stanley Corrsin Award which "recognizes and encourages a particularly influential contribution to fundamental fluid dynamics." The citation reads: "For analysis of singularities as a unifying theme for physical and mathematical insights into a wide variety of two-phase fluid mechanics problems involving jets, coalescence, entrainment and wetting."

The Stanley Corrsin Award is supported by an endowment fund contributed by the Division of Fluid Dynamics and held by the APS.



2017 Andreas Acrivos Dissertation Award

Xiang Yang, Stanford University, was the recipient of the 2017 Andreas Acrivos Dissertation Award for the Johns Hopkins University doctoral thesis entitled: "Modeling drag forces and velocity fluctuations in wall-bounded flows at high Reynolds numbers".



2017 François N. Frenkiel Award
Charles Loussert, Anne Bouchaudy, Jean-Baptiste Salmon, Université de Bordeaux were the recipients of the 2017 François N. Frenkiel Award for the paper titled: *Drying dynamics of a charged colloidal dispersion in a confined drop* Phys. Rev. Fluids 1, 084201 (2016).

The award is given in recognition of significant contributions to fluid mechanics by young investigators. The award, which is sponsored by the Division of Fluid Dynamics, is given in honor of a paper published in the *Physical Review Fluids*.

2017 Elected APS/DFD Fellows

Each year the number of new Fellows is limited to be not more than $\frac{1}{2}$ of 1% of the membership. Congratulations to the following 2017 Fellows:



Louis N. Cattafesta Florida State University

For seminal contributions in active flow control and aeroacoustics, including real-time closed-loop control, design tools for actuators and micro-electro-mechanical flow sensors, design and characterization of unique aeroacoustic facilities, and phased-array beamforming methods.



Suman Chakraborty Indian Institute of Technology Kharagpur

For advancing the understanding of key transport mechanisms in microfluidics including electrohydrodynamic coupling in the presence of hydrophobic interactions; for contributions to the understanding of electrokinetic transport of blood through microchannels; and for medical device development.



Jeff D. Eldredge
**University of California,
 Los Angeles**

For significant contributions to the computational and theoretical modeling of vortex dynamics including agile flight and bio-inspired locomotion, fluid-structure interaction, flow-acoustic interaction, and vortex models and particle methods.



Toshiyuki Gotoh
**Nagoya Institute of Technology,
 Japan**

For insightful contributions to understanding intermittency, scaling and passive scalar statistics in turbulence through innovative uses of high-resolution simulations, and statistical theory.



Mihailo Jovanovic
**University of Southern
 California**

For profound contributions to stability and flow control, and the application of control-theoretic and optimization techniques to the analysis of wall-bounded shear flows, drag reduction, and viscoelastic fluids.



Keith A. Julien
University of Colorado, Boulder

For theoretical and numerical contributions to understanding rotating thermal convection and its applications to geophysical and astrophysical phenomena.



Ho-Young Kim
Seoul National University

For innovative contributions to microscale fluid dynamics at the interfaces of fluids and solids, and to biologically inspired hydrodynamics.



Lou Kondic
**New Jersey Institute of
 Technology**

For understanding of complex fluid dynamics, from thin films to granular flows



Stefan G. Llewellyn Smith
**University of California,
 San Diego**

For excellence in theoretical fluid mechanics and applied mathematics that has led to several original contributions in geophysical flows and vortex dynamics.



Surya P. Vanka
**University of Illinois at
 Urbana-Champaign**

For pioneering development of multigrid algorithms used to compute incompressible flows, and lasting contributions to simulation of complex laminar and turbulent flows, including turbulence-driven secondary flows, particle transport, continuous casting of steel, and Dean vortices in curved channels.



Jun Zhang
New York University

For elegant and artful experiments that have moved fluid-structure interactions into the scientific mainstream, and which have inspired their study in physics, biology, engineering, geophysics, and applied mathematics.

The 2017 Gallery of Fluid Motion and the Milton Van Dyke Award Winners

As has long been the tradition, the best posters and videos are chosen amongst the entries at the meeting each year. The top three from each category are awarded the Milton Van Dyke Award for fluid flow visualization. The posters and videos can be viewed at gfm.aps.org.

2017 Milton Van Dyke Award (Posters)

P0026: Champagne sheets

Nathan Speirs, Mujtaba Mansoor, Randy Hurd, Tadd Truscott, Utah State University; Jesse Belden, Naval Undersea Warfare Center

P0022: Mandala-inspired representation of the turbulent energy cascade

Maxime Bassenne, Hyunji Jane Bae, Adrian Lozano-Duran, Stanford University

P0014: Rayleigh-Taylor mediated elastic structures

Pierre-Thomas Brun, Joel Marthelot, Princeton University

2017 Gallery of Fluid Motion Award (Poster)

P0029: Vortex structure interaction

Heidi Reuter, Azar Eslam-Panah, Pennsylvania State University

2017 Milton Van Dyke Award (Video)

V0020: Marangoni bursting: Evaporation-induced emulsification of a two-component droplet

Guillaume Durey, Hoon Kwon, Quentin Magdelaine, Mathias Casiulis, The Lutetium Project, ESPCI Paris, PSL Research University; Julien Mazet, Conservatoire National Supérieur de Musique et de Danse de la Ville de Paris, PSL Research University; Ludovic Keiser, Hadrien Bense, José Bico, ESPCI Paris, PSL Research University; Pierre Colinet, Université Libre de Bruxelles; Etienne Reyssat, ESPCI Paris, PSL Research University

V0052: Leidenfrost Wheels

Ambre Bouillant, Timothée Mouterde, Philippe Bourriane, Christophe Clanet, David Quéré, ESPCI Paris, Ecole Polytechnique

V0080: Kicking droplets

Pierre Chantelot, Martin Coux, PMMH, ESPCI Paris & LadHyX, Ecole Polytechnique; Lucie Domino, PMMH, ESPCI Paris; Christophe Clanet, PMMH, ESPCI Paris & LadHyX Ecole Polytechnique; Antonin Eddi, PMMH, ESPCI Paris; David Quéré, PMMH, ESPCI Paris & LadHyX, Ecole Polytechnique

2017 Gallery of Fluid Motion Award (Video)

V0098: Soap opera in the maze: Geometry matters in Marangoni flows

Fernando Temprano-Colet, University of California Santa Barbara; Francois Peaudecerf, University of Cambridge; Julien Landel, University of Manchester; Frederic Gibou, Paolo Luzzatto-Fegiz, University of California Santa Barbara

V0018: Spin lattices of walking droplets

Pedro Saenz, Pucci Giuseppe, Alexis Goujon, Tudor Cristea-Platon, Jörn Dunkel, John Bush, Massachusetts Institute of Technology

V0037: The emergence of small scales in vortex ring collisions

Ryan McKeown, Rodolfo Ostilla Monico, Harvard University; Alain Pumir, ENS Lyon; Michael P. Brenner, Shmuel Rubinstein, Harvard University

V0053: The coexistence of order and chaos in C-major

Paul Branson, Matthew Rayson, The University of Western Australia; Marco Ghisalberti, The University of Melbourne; Gregory Ivey, The University of Western Australia

Student Poster Competition Award Winners

The Student Poster Competition is an opportunity for undergraduate and graduate students to refine their presentation skills and network. Awards were presented for 1st and 2nd place in two categories. Congratulations to the following:

Computational

1st prize: Keisuke Yamamoto, Katsuyuki Nakayama Relationships between development/decay of a vortex and its topology in different flow scales in an isotropic homogeneous turbulence.

2nd prize: Kotaro Nakamura, Yuji Tasaka, Yuichi Murai Creations of a turbulent puff in a pipe flow with dilute microbubbles

Experimental

1st prize: Kyle Johnson, Brian Thurow, Kevin Wabick, James Buchholz, Randall Berdon Vortex topology of rolling and pitching wings

2nd prize: Mitchell Ford, Vishwa Kosoju, Arvind Santhanakrishnan Effect of varying solid membrane area of bristled wings on clap and fling aerodynamics in the smallest flying insects

Additional Highlights of the 70th Annual DFD Meeting in Denver, CO

The 2017 DFD meeting was held in November at the Colorado Convention Center in Denver, CO. The meeting had nearly 3,000 contributed talks in up to 39 parallel sessions and 145 entries to the Gallery of Fluid Motion. There were 130 technical posters and 19 student posters submitted from around the world.

In addition to the contributed talks, there were 4 award lectures. See page 6 for 2017 award winners. There were also the following 8 invited talks, 5 minisymposia and 14 focus sessions covering 7 topics of interest.

2017 Invited Talks

David R. Dowling, University of Michigan

Hidden acoustic information revealed by intentional nonlinearity

Anne-Laure Bianco, Université Lyon

Electricity in foams: from one soapy interface to the macroscopic material

Matthew Juniper, University of Cambridge

Extreme sensitivity in Thermoacoustics

Jacqueline Chen, Sandia National Laboratories

Direct Numerical Simulation of Turbulent Multi-Stage Autoignition Relevant to Engine Conditions

Jeffrey Morris, Levich Institute, CUNY City College of New York

Shear thickening in suspensions: the lubricated-to-frictional contact scenario

Kathy Prestridge, Los Alamos National Laboratory

Experimental adventures in variable-density mixing

Sungyon Lee, University of Minnesota

Particle-induced viscous fingering

Dwight Barkley, University of Warwick

Nobody knew turbulent transition could be so complicated

2017 Minisymposia

Flying Fish and Diving Birds

Recent Advancements in Turbulent Mixing in Stratified Geophysical Flows

Life Processes at Biologically Intermediate Reynolds Numbers

Tutorial: Modal Analysis Methods for Future Flows

Fluid Dynamics of Atmospheric Clouds

2017 Focus Sessions

(14 focus sessions on 7 topics)

Unanswered Questions in Viscous Fingering I, II

Fluid Dynamics of Fire: From Small to Large Scales

Modeling, Computations and Applications of Wetting/Dewetting Problems I, II, III

The Physics of Electrospray and Electrospinning: Current Knowledge and State of the Art I, II

Fluid Dynamics of Atmospheric Clouds I, II, III

Modal Analysis Methods for Fluid Flows I, II

Life Processes at Biologically Intermediate Reynolds Numbers

APS/DFD 2017-2018 Leadership & Contact Information

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

EXECUTIVE COMMITTEE

Chair:
Eckart Meiburg
(11/17 - 10/18)
Univ of California - Santa Barbara

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Charles Meneveau
(11/17 - 10/18)
Johns Hopkins Univ

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(11/17 - 10/18)
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(01/15 - 12/18)
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(11/15 - 10/18)
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(11/15 - 10/18)
MIT

Member-at-Large:
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(11/15 - 10/18)
Univ of Twente

Member-at-Large:
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(11/16 - 10/19)
Univ of California - Los Angeles

Member-at-Large:
Katherine Prestridge
(11/16 - 10/19)
Los Alamos Natl Lab

Member-at-Large:
David Saintillan
(11/17 - 10/20)
Univ of California - San Diego

Member-at-Large:
Sarah Waters
(11/17 - 10/20)
University of Oxford

COMMITTEES

NOMINATING COMMITTEE
8 MEMBERS, STAGGERED
2-YEAR TERMS

Bud Homsy
(12/18)
Chair

Elisabeth Guazzelli
(12/19)
Vice-Chair

Serafim Kalliadasis
(12/18)

Haecheon Choi
(12/18)

Alison Marsden
(12/18)

Paolo Luzzatto-Fegiz
(12/19)

Anne Juel
(12/19)

Anne De Wit
(12/19)

PROGRAM COMMITTEE
8 MEMBERS, STAGGERED
3-YEAR TERMS

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(12/18)
Chair

Minami Yoda
(12/18)
Vice-Chair

Shawn Shadden
(12/18)

Michael Plesniak
(12/18)

Nicholas Hutchins
(12/18)

Rui Ni
(12/20)

Dennice Gayme
(12/20)

Jean Hertzberg
(12/20)

FELLOWSHIP COMMITTEE
8 FELLOWS, STAGGERED
2-YEAR TERMS

Minami Yoda
(12/18)
Chair

Charles Meneveau
(12/18)
Vice-Chair

Yoshi Kimura
(12/18)

Ken Christensen
(12/18)

Ching-Long Lin
(12/18)

Beverley McKeon
(12/19)

Peko Hosoi
(12/19)

John Dabiri
(12/19)

EXTERNAL AFFAIRS COMMITTEE
8 MEMBERS, STAGGERED
3-YEAR TERMS

Melissa Green
(12/18)
Chair

Stephen Morris
(12/19)
Vice-Chair

Mihailo Jovanovic
(12/18)

Roberto Zenit
(12/18)

Kausik Sarkar
(12/18)

Meredith Metzger
(12/19)

Arvind Santhanakrishnan
(12/20)

Hassan Masoud
(12/20)

Davesh Ranjan
(12/20)

FLUID DYNAMICS PRIZE SELECTION COMMITTEE
8 MEMBERS, STAGGERED
2-YEAR TERMS

Satish Kumar
(12/19)
Chair

Detlef Lohse
(12/19)
Vice-Chair

Yukio Kaneda
(12/18)

Sascha Hilgenfeldt
(12/18)

Alexander Smits
(12/18)

Kathleen Stebe
(12/18)

Rama Govindarajan
(12/19)

Alban Sauret
(12/19)

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