



A Division of the American Physical Society



**Portland and Mount Hood**

**Portland, OR  
November 20-22, 2016**

The 69th Annual Meeting of the American Physical Society's Division of Fluid Dynamics (DFD) will be held in Portland, OR on November 20-22, 2016. The meeting is being hosted by Portland State University, University of Washington and Oregon State University. The meeting will be held at the Oregon Convention Center in Portland.

**Meeting Venue**

The Oregon Convention Center (OCC) is the largest convention center in the Pacific Northwest, making it an ideal venue for conventions, industry tradeshows, meetings and banquets. As a LEED – Platinum certified building and being located in beautiful and lively downtown Portland, Oregon, the OCC is the preferred destination for many groups because of its commitment to customer service and leadership in sustainable practices.

**Portland**

Portland, Oregon's largest city, sits on the Columbia and Willamette rivers, in the shadow of snow-capped Mount Hood. It is known for its parks, bridges and bicycle paths, as well as for its eco-friendliness and its microbreweries and coffeehouses. Iconic Washington Park encompasses sites from the formal Japanese Garden to the Oregon Zoo and its railway. The city hosts thriving art, theater and music scenes. For more information on Portland go to:

<http://www.travelportland.com/>

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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.



### Hotel Accommodations

Hotel information is available through the meeting web site:

[http://apsdfd2016pdx.org/?page\\_id=30](http://apsdfd2016pdx.org/?page_id=30)

Please make your reservation at one of the hotels below. Staying at one of these hotels helps meet DFD's financial obligation, and in turn helps to keep registration fees as low as possible.

Most of the hotels are located in the Lloyd District of Portland, within walking distance of the Oregon Convention Center, where the meeting is being held. The area offers shopping, dining, attractions, public transportation and other amenities.

#### Reservation Method:

Discounted conference rates are available until October 14, 2016 or until the room blocks at the host hotels are sold out.

**You may make a reservation at any one of the contracted hotels by going to the reservation website:**

<https://aws.passkey.com/event/14720490/owner/3232/home>

#### Or by contacting:

Travel Portland Housing Department  
Hours: Monday - Friday from 8:30am to 5:00pm PST  
Phone: 1-503-275-9295  
Toll Free: 1-877-678-5263 x2  
Email: [housing@travelportland.com](mailto:housing@travelportland.com)

#### Hotels with Special Group Rates

##### Doubletree by Hilton Portland

*Serving as the APS headquarter hotel*  
1000 NE Multnomah Street, Portland, OR 97232

Serving as the APS/DFD headquarter hotel, DoubleTree by Hilton Portland, is conveniently located in the Lloyd District of Portland, a few blocks from the Oregon Convention Center. The stylish and contemporary, DoubleTree by Hilton Portland is one of Oregon's first sustainable hotels.

#### Rates:

\$159 + Tax: Single/Double Room Occupancy  
\$174 + Tax: Triple Room Occupancy  
\$189 + Tax: Quad Room Occupancy

##### Courtyard Portland Downtown Convention Center

435 NE Wasco Street, Portland, OR 97232

The Courtyard Portland Downtown Convention Center, located on the hip eastside of downtown, is adjacent to the Oregon Convention Center. The area offers a variety

of local shopping, cuisine and culture.

#### Rates:

\$139 + Tax: Single/Double Room Occupancy  
\$149 + Tax: Triple/Quad Room Occupancy

##### Crowne Plaza Portland Downtown Convention Center

1441 NE 2nd Avenue, Portland, OR 97232

The Crowne Plaza Portland Downtown, located just steps from the Oregon Convention Center embodies the spirit of the Pacific Northwest's most progressive city. A fleet of guest bicycles are available for getting around town.

#### Rates:

\$149 + Tax: Single/Double Room Occupancy  
\$154 + Tax: Triple/Quad Room Occupancy

##### Hotel Eastlund

1021 NE Grand Avenue, Portland, OR 97232

The newest hotel in Portland's thriving Eastside combines classic, clean style with modern sophistication and is located close to the Oregon Convention Center.

#### Rates:

\$135 + Tax: Single/Double Room Occupancy  
\$145 + Tax: Triple Room Occupancy  
\$155 + Tax: Quad Room Occupancy

##### Hilton Portland & Executive Tower

921 SW Sixth Avenue, Portland, OR 97204

The Hilton Portland & Executive Tower is the largest hotel in the state. Located in the heart of the downtown Portland, the hotel encompasses two buildings. **This hotel is on the southwest side of the river, approximately 1.7 miles from the Oregon Convention Center. The Convention Center is easily accessible via the MAX Light Rail.**

#### Rates:

\$159 + Tax: Single/Double Room Occupancy  
\$175 + Tax: Triple/Quad Room Occupancy

### Registration

Registration OPENS July 1, 2016

[http://apsdfd2016pdx.org/?page\\_id=32](http://apsdfd2016pdx.org/?page_id=32)

| Registration Type         | Received on/before 9/15 | Received between 9/16 - 10/22 | Received between 10/23 - 11/22 |
|---------------------------|-------------------------|-------------------------------|--------------------------------|
| Member                    | \$470                   | \$540                         | \$720                          |
| Reciprocal Society Member | \$470                   | \$540                         | \$720                          |

| Registration Type                                     | Received on/before 9/15 | Received between 9/16 - 10/22 | Received between 10/23 - 11/22 |
|---|-------------------------|-------------------------------|--------------------------------|
| <b>Non-Member</b>                                     | \$725                   | \$785                         | \$865                          |
| <b>Retired Member</b><br>(with APS Senior Membership) | \$260                   | \$280                         | \$365                          |
| <b>Graduate Student Member**</b>                      | \$255                   | \$275                         | \$365                          |
| <b>Undergraduate***</b>                               | \$100                   | \$100                         | \$140                          |
| <b>Additional Reception Ticket</b>                    | \$100                   | \$100                         | \$100                          |

*\*\*Graduate Students who are not APS Members must pay the nonmember rate unless joining at the time of registration. 1st year is free for first time members in the U.S., Canada, or Mexico. 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.*

## Key Dates

### Registration Deadlines

#### Early Registration Rate

on or before Sept 16, 2016

#### Regular Registration Rate

Sept 17 – Oct 22, 2016

#### On-Site Registration Rate

Oct 23 – Nov 22, 2016

#### Cancellation Deadline

(no registration refunds past this date)

Nov 7, 2016

#### Hotel Reduced Rate Ends

Oct 17, 2016 or earlier if block sells out

#### Abstract Submission Deadline

Aug 1, 2016

#### Travel Grant Application Deadline

Aug 1, 2016

#### Child Care Grant Application Deadline

Aug 1, 2016

#### Gallery of Fluid Motion (GFM)

#### GFM Poster and Video Submission

Entries Must be Submitted Prior to Sep 15, 2016

#### Video Submission Deadline

Oct 6, 2016

#### GFM Poster

Bring to meeting

#### Scientific Program

The scientific program will include four award lectures, eight invited lectures, minisymposia, focus sessions and a poster session. 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 2016.

#### Awards Program

Each year the APS Division of Fluid Dynamics presents the Fluid Dynamics Prize, the Francois N. Frenkiel Award, the Andreas Acrivos Dissertation Award and the Stanley Corrsin Award. The 2016 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 also includes Minisymposia and Focus Sessions dealing with exciting current topics.

#### Posters

The number of research poster contributions to the Annual DFD Meeting has been growing over the past few years with over 169 posters submitted in 2015 of which 30 were entered into a Student Poster Competition.

The Poster Session will be held on Monday, November 21st during the afternoon refreshment break. Student posters will be judged and awarded 1st and 2nd Prize for “Best Poster” in the following categories: Category 1: Computational fluid dynamics, Category 2: Experimental fluid dynamics and Category 3: Microfluidics and interfacial fluid dynamics

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

#### Gallery of Fluid Motion

The 34th Annual Gallery of Fluid Motion will be held as part of the meeting. The Gallery consists of posters or 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 2017 and will appear in *Physical Review Fluids*. Please note that the videos will be accessible on-line at [gfm.aps.org](http://gfm.aps.org).

#### Travel Awards and Child Care Grants

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 August 1, 2016 at 5:00 pm EDT. Further details can be found on the conference website under Travel Grants.

DFD has also initiated a special program for Child Care Grants 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.

#### 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.

#### Exhibitor and Sponsorship Opportunities

Exhibits will be centrally located in Hall A of the Convention Center.

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

[margaret2@meetingsandmore.net](mailto:margaret2@meetingsandmore.net)

#### Conference Reception

This year the DFD Conference Reception will be held at the Oregon Convention Center. This is always a great way to catch up with others in the field and make new connections. There will be local Portland entertainment at the event which will captivate those that attend.

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.

#### Meeting Chair

##### Raúl Bayoán Cal

Meeting Chair  
Portland State University  
(518) 421-8899  
[rcal@pdx.edu](mailto:rcal@pdx.edu)

#### Abstract Submissions

##### Donald Mewha

APS  
(301) 209-3285  
[mewha@aps.org](mailto:mewha@aps.org)

#### Meeting Information General Information

##### Peggy Holland

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

##### Monica Malouf

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

#### Registration

##### Katie McLaughlin

Orchid Solutions  
Phone: (801) 505-4102  
[katie@orchideventsolutions.com](mailto:katie@orchideventsolutions.com)

#### Exhibiting and Sponsorship Information

##### Margaret McDonald

Meetings and More  
Phone: (240) 355-5608  
[margaret2@meetingsandmore.net](mailto:margaret2@meetingsandmore.net)

#### Future APS/DFD Meetings

##### 2017: Denver, CO

Professor Jean Hertzberg, Meeting Chair  
Professor Peter Hamlington, Meeting Co-Chair  
University of Colorado, Boulder

##### 2018: Atlanta, GA

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

##### 2019: Seattle, WA

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

##### 2020: Chicago, IL

Professor Jon Freund, Meeting Chair  
University of Illinois Urbana-Champaign

## APS/DFD 2015 Awards, Prizes, New Fellows, and Gallery Winners



### 2015 Fluid Dynamics Prize

**Morteza Gharib**, California Institute of Technology, was the recipient of the 2015 Fluid Dynamics Prize, which recognizes major contributions to fundamental fluid dynamics made during a career of outstanding work. The citation reads: "In recognition of his seminal contributions to measurement techniques in experimental fluid mechanics, elucidation of governing physical principles in flow-structure interactions and vortex dynamics, and creative application of these concepts to a variety of important problems in biological fluid dynamics and beyond."



### 2015 Stanley Corrsin Award

**Michael Graham**, University of Wisconsin-Madison was the recipient of the 2015 Stanley Corrsin Award which is given to recognize and encourage a particularly influential contribution to fundamental fluid dynamics. The citation reads: "For novel research that provided fresh perspectives and laid the groundwork for the nonlinear dynamics of complex and multiphase fluids, including the interaction between polymer dynamics and turbulence, and the microhydrodynamics of complex and biological fluids."



### 2015 Francois N. Frenkiel Award

**Diego Lopez**, IUSTI, Aix-Marseille Université and **Eric Lauga**, University of Cambridge were the recipients of the 2015 François N. Frenkiel Award for their paper "Dynamics of Swimming Bacteria at Complex Interfaces", *Physics of Fluids* Volume 26, 071902 (2014). 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 *Physics of Fluids* during the preceding year.



### 2015 Andreas Acrivos Dissertation Award

**Sujit Datta**, California Institute of Technology received the Andreas Acrivos Dissertation Award for his paper titled "Getting out of a Tight Spot: Physics of Flow Through Porous Materials". The award recognizes an exceptional young scientist for original, outstanding doctoral thesis work in fluid dynamics done in the United States.

### 2015 Division of Fluid Dynamics 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 2015 Fellows:



### Stuart Dalziel University of Cambridge

For important contributions to experimental techniques and experimental understanding of stratified and rotating fluids, and for influential directorship of the Batchelor Laboratory and mentoring of young scientists.



### Anne De Wit Université Libre de Bruxelles

For pioneering contributions to our understanding of the coupling between chemical reaction, hydrodynamics, and pattern formation driven by coupled reacting-hydrodynamic systems.



### Jerzy Floryan University of Western Ontario

For seminal illumination of the critical influence of surface topography and heating on surface drag; and the onset of shear-, centrifugal-, buoyancy-, and parametric-resonance driven instabilities; and their characterization.



**Guowei He**  
**Chinese Academy of Sciences**  
*For fundamental contributions to understanding space-time correlations in turbulent flows and development of time-accurate models for large-eddy simulation, and for leadership in fluid dynamics research in China.*



**Omar Matar**  
**Imperial College London**  
*For important contributions to interfacial fluid dynamics in the presence of surfactants, nanoparticles, and electric fields, using theory and computation, and with applications in industrial and daily life settings.*



**Jeffrey Koseff**  
**Stanford University**  
*For pioneering contributions in understanding lid-driven cavity flow and transport phenomena in coupled physical-biological systems, and seminal contributions to the theory of stratified turbulence and internal wave breaking.*



**Igor Mezic**  
**University of California, Santa Barbara**  
*For fundamental contributions to the theory of three-dimensional chaotic advection, measures and control of mixing, and development of a spectral operator theory approach to decomposition of complex fluid flows.*



**Satish Kumar**  
**University of Minnesota**  
*For fundamental contributions to interfacial and non-Newtonian fluid mechanics and for exemplary leadership in the engineering science of liquid-applied coating and printing processes.*



**Joseph Niemela**  
**International Center for Theoretical Physics, Trieste**  
*For significant contributions to high-precision heat transport measurements at very high Rayleigh numbers in cryogenic Rayleigh-Bénard convection, and pioneering applications of low-temperature techniques to studies of instabilities and turbulence.*



**Viswanathan Kumaran**  
**Indian Institute of Science**  
*For studies of transition to turbulence in flows past soft surfaces at moderate Reynolds numbers, including asymptotic and numerical analyses, and experimental characterization of instabilities, turbulence, and ultrafast mixing.*



**Leonid Pismen**  
**Technion**  
*For pioneering and ingenious contributions to fundamental fluid dynamics, particularly interfacial flows, dynamics of moving contact lines, and the analysis of instabilities and pattern formation in diverse systems.*



**George Lauder**  
**Harvard University**  
*For fundamental contributions to understanding of aquatic propulsion in fishes through experimental hydrodynamics.*



**Troy Shinbrot**  
**Rutgers University**  
*For creative and thought-provoking work on chaos, fluid mixing, and granular flows.*





**Todd Squires**  
**University of California,**  
**Santa Barbara**

*For advancing the quantitative and qualitative understanding of fundamental processes in microfluidics and nonlinear electrokinetics, colloidal hydrodynamics, and active and nonlinear microrheology of bulk materials and complex fluid interfaces.*



**Federico Toschi**  
**Eindhoven University of**  
**Technology**

*For lasting contributions to direct numerical simulations of complex flows and turbulence, and to the understanding of fully developed turbulence and turbulent two-phase flow.*



**Xiaohua Wu**  
**Royal Military College of Canada**

*For pioneering direct numerical simulations of pipe and boundary layer flows, from a laminar state, through transition, to a fully-developed turbulent state; and for generating striking and insightful visualizations.*

**The 2015 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](http://gfm.aps.org).

**2015 APS/DFD Milton van Dyke Award (Poster)**

**P0008. Drop floating on a granular raft**

Etienne Jambon-Puillet, Suzie Protiere, Institut Jean Le Rond d'Alembert, Sorbonne Universites

**P0048. An emerging string of fluid pearls**

Seong Jin Kim, Sunghwan Jung, Virginia Tech; Minsu Jang, Soong Ho Um, Sungkyunkwan University

**P0050. Variable density vortex ring dynamics in sharply stratified ambient fluids**

Roberto Camassa, Daniel Harris, Richard McLaughlin, Pierre-Yves Passaggia, UNC Joint Fluids Lab; David Holz, Keith Mertens, Leap Motion; Claudio Viotti, Miravex

**2015 APS/DFD Gallery of Fluid Motion Award (Poster)**  
**P0014. Wind, water, and pollen - chaotic mixing in a puddle of water**

Kaare H. Jensen, Technical University of Denmark

**P0051. Erosion patterns on dissolving solids**

Caroline Cohen, Julien Derr, Michael Berhanu, Sylvain Courrech du Pont, Université Paris Diderot

**2015 APS/DFD Milton van Dyke Award (Video)**

**V0013: The tightrope dancer bubbles**

Alexis Duchesne, Charles Dubois, Hervé Caps Université de Liège

**V0087: The merger of a bubble and a soap film**

Giuseppe Pucci, Daniel M. Harris, Victor Prost, Julio Quintela Casal, John W. M. Bush, Massachusetts Institute of Technology

**V0040: Placing Marangoni instabilities under arrest**

M. Saad Bhamla, Gerald G. Fuller, Stanford University

**2015 APS/DFD Gallery of Fluid Motion Award (Video)**

**V0015: Lagrangian coherent structures in the flow field of a fluidic oscillator**

Moritz Sieber, Florian Ostermann, Kilian Oberleithner, C. Oliver Paschereit, Hermann-Föttinger-Institut, Technische Universität Berlin; Rene Woszidlo, The Boeing Company

**V0064: Shedding light on pilot-wave phenomena**

Pierre-Thomas Brun, Dan Harris, Victor Prost, Julio Quintela, John W. M. Bush, Massachusetts Institute of Technology

**V0088: Turning on a dime: Asymmetric vortex formation in hummingbird maneuvering flight**

Yan Ren, Haibo Dong, University of Virginia; Xinyan Deng, Purdue University; Bret Tobalske, University of Montana

**V0029: Instabilities and fragmentation of drops in 3D**

Silvestre Roberto Gonzalez-Avila, Julien Rapet, Claus-Dieter Ohl, Nanyang Technological University; Piotr Kerssens, University of Twente



## Highlights of the 68th Annual DFD Meeting in Boston, MA

The 2015 DFD meeting was held in November at the Hynes Convention Center in Boston, MA. The meeting was the largest in DFD history with more than 3100 contributed papers in up to 40 parallel sessions and 129 entries to the Gallery of Fluid Motion. There were 140 technical posters and 30 student posters submitted from around the world.

**In addition to the contributed abstracts, there were 4 award lectures and 8 invited talks, 4 minisymposia and 2 focus sessions.**

### 2015 Invited Talks

**Keith Moffatt, DAMTP, University of Cambridge**

Soap Film Dynamics and Topological Jumps Under Continuous Deformation

**George Lauder, Harvard University**

Fish Locomotion: Insights from Both Simple and Complex Mechanical Models

**Petia Vlahovska, Brown University**

Microhydrodynamics of Deformable Particles: Surprising Responses of Drops and Vesicles to Uniform Electric Field or Shear Flow

**Richard Kerswell, Bristol University**

Using Optimisation to Identify the “Best” Way to Trigger Flow Transition

**Jacco Snoeijer, University of Twente and Eindhoven University of Technology**

Flow Near Singular Elastic Interfaces: Lubrication, Wetting and Cusps

**Sivaramakrishnan Balachandar, University of Florida**

Instability and Turbulence of Propagating Particulate Flows

**Michael Le Bars, IRPHE, CNRS and Aix-Marseille University, France**

Flows Driven by Libration, Precession and Tides in Planetary Cores

**Thomas Bewley, UCSD Flow Control & Coordinated Robotics Labs**

New Methods for State Estimation and Adaptive Observation of Environmental Flow Systems Leveraging Coordinated Swarms of Sensor Vehicles

### 2015 Minisymposia

Minisymposium: Hydraulic Fracturing

Minisymposium: Cavitation in Soft Tissue

Russell Donnelly Minisymposium

Minisymposium on Turbulence in Honor of John L. Lumley

### 2015 Focus Sessions

Electro-Hydro-Dynamics of Drops, Vesicles and Membranes

Reconfiguration



# APS/DFD 2015-2016 Leadership & Contact Information

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

## EXECUTIVE COMMITTEE

**Chair:**  
**Ellen Longmire**  
(11/15 - 10/16)  
*Univ of Minn - Minneapolis*

**Chair-Elect:**  
**Lance Collins**  
(11/15 - 10/16)  
*Cornell Univ*

**Vice Chair:**  
**Robert Moser**  
(11/15 - 10/16)  
*Univ of Texas, Austin*

**Past Chair:**  
**James Duncan**  
(11/15 - 10/16)  
*Univ of Maryland-College Park*

**Councillor:**  
**Ann Karagozian**  
(01/15 - 12/18)  
*Univ of California - Los Angeles*

**Secretary/Treasurer:**  
**Jonathan Freund**  
(11/15 - 10/18)  
*Univ of Illinois - Urbana*

**Member-at-Large:**  
**Paul Linden**  
(11/13 - 10/16)  
*Univ of Cambridge*

**Member-at-Large:**  
**Shelley Anna**  
(01/15 - 12/17)  
*Carnegie Mellon Univ*

**Member-at-Large:**  
**John Dabiri**  
(01/15 - 12/17)  
*Caltech*

**Member-at-Large:**  
**Anette Hosoi**  
(11/15 - 10/18)  
*MIT*

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

## COMMITTEES

**NOMINATING COMMITTEE**  
8 MEMBERS, STAGGERED  
2-YEAR TERMS

**Michael Schultz**  
(12/16)  
Chair

**Kathy Prestridge**  
(12/17)  
Vice-Chair

**David Hu**  
(12/17)

**David Saintilan**  
(12/17)

**Daniel Bodony**  
(12/17)

**Peter Schmid**  
(12/16)

**Yukio Kaneda**  
(12/16)

**Alison Marsden**  
(12/16)

**PROGRAM COMMITTEE**  
8 MEMBERS, STAGGERED  
3-YEAR TERMS

**Lance Collins**  
Chair

**Robert Moser**  
Vice-Chair

**Shawn Shadden**  
(12/18)

**Michael Plesniak**  
(12/18)

**Nicholas Hutchins**  
(12/18)

**Patrice Le Gal**  
(12/17)

**Petia Vlahovska**  
(12/17)

**Roseanna Zia**  
(12/17)

**FELLOWSHIP COMMITTEE**  
8 FELLOWS, STAGGERED  
2-YEAR TERMS

**Robert Moser**  
Chair

**Lance Collins**  
Vice-Chair

**Ross Griffiths**  
(12/17)

**Z. Jane Wang**  
(12/17)

**Minami Yoda**  
(12/17)

**Arne Pearlstein**  
(12/16)

**Jim Wallace**  
(12/16)

**Serafim Kalliadasis**  
(12/16)

**EXTERNAL AFFAIRS COMMITTEE**  
8 MEMBERS, STAGGERED  
3-YEAR TERMS

**Ken Christensen**  
(2016)  
Chair

**Mihailo Jovanovic**  
(12/17)  
Vice-Chair

**Roberto Zenit**  
(12/18)

**Melissa Green**  
(12/18)

**Beverley McKeon**  
(12/16)

**Kausik Sarkar**  
(12/18)

**Anya Jones**  
(12/17)

**Mihailo Jovanovic**  
(12/17)

**Jens Fransson**  
(12/17)

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

**Kenny Breuer**  
(12/16)  
Chair

**Krishnan Mahesh**  
(12/17)  
Vice-Chair

**Michael Brenner**  
(12/17)

**Anne de Wit**  
(12/17)

**Ron Adrian**  
(12/16)

**Shelley Anna**  
(12/16)

**Harindra "Joe" Fernando**  
(12/16)

**Mory Gharib**  
2015 Award Winner

**CORRSIN AWARD SELECTION COMMITTEE**  
8 MEMBERS, STAGGERED  
2-YEAR TERMS

**Ugo Piomelli**  
(12/16)  
Chair

**Karen Flack**  
Vice-Chair  
(12/17)

**Grae Worster**  
(12/17)

**Stephen Pope**  
(12/17)

**Eckart Meiburg**  
(12/17)

**Michael Graham**  
2015 Award Winner

**Kate Stebe**  
(12/16)

**Gary Leal**  
(12/16)

**ACRIVOS AWARD SELECTION COMMITTEE**  
7 MEMBERS, STAGGERED  
2-YEAR TERMS

**Ching-Long Lin**  
(12/16)  
Chair

**Satish Kumar**  
(12/17)  
Vice Chair

**Dennice Gayme**  
(12/17)

**Antonino Ferrante**  
(12/17)

**Robert Martinuzzi**  
(12/17)

**Eva Kanso**  
(12/16)

**John Dabiri**  
(12/16)

**FRENKIEL AWARD SELECTION COMMITTEE**  
7 MEMBERS, STAGGERED  
2-YEAR TERMS

**Emmanuel Villermaux**  
(12/16)  
Chair

**Joe Klewicki**  
(12/17)  
Vice-Chair

**Donald Webster**  
(12/17)

**Emily Ching**  
(12/17)

**Rama Govindarajan**  
(12/16)

**Jonathan Freund**  
(12/16)

**Eric Lauga**  
2015 Award Winner

**COMMITTEE ON MEDIA & SCIENCE RELATIONS**  
6 MEMBERS, STAGGERED  
2-YEAR TERMS

**Andrew Belmonte**  
(12/17)  
Chair

**Tadd Truscott**  
(12/17)  
Vice-Chair

**Phil Marcus**  
(12/16)

**Nicole Sharp**  
(12/16)

**Pavlos Vlachos**  
(12/18)

**Luciano Castillo**  
(12/18)

**COMMITTEE ON EDUCATIONAL & CAREER OUTREACH**  
6 MEMBERS, STAGGERED  
2-YEAR TERMS

**Carlos Hidrovo**  
(12/16)  
Chair

**Aline Cotel**  
(12/17)  
Vice-Chair

**Ebenezer Gnanamanickam**  
(12/17)

**Mitul Luhar**  
(12/17)

**Nathalie Vriend**  
(12/17)

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**GALLERY OF FLUID MOTION COORDINATOR**

**Ken Kiger**

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