



A Division of the American Physical Society



**Denver, CO
November 19-21, 2017**

The 70th Annual Meeting of the American Physical Society's Division of Fluid Dynamics (DFD) will be held in Denver, CO on November 19-21, 2017. The meeting is being hosted by the University of Colorado, Boulder with support from the University of Colorado, Colorado Springs; Colorado State University; and Colorado School of Mines.

Hotel Accommodations

Detailed Hotel information is available through the meeting web site:

<http://www.apsdfd2017.org>

Please make your reservation at one of the hotels listed 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. All hotels are a short walking distance to the Colorado Convention Center and

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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.

Meeting Venue

Located in the heart of Downtown Denver, the Colorado Convention Center is located in one of the most walkable and visitor-friendly downtowns in the country. There are 200 named peaks visible from Denver, including 32 that soar to 13,000 feet (4,000 meters) and above. The mountain panorama visible from Denver is 140 miles (225 km) long. Within a mile radius, downtown Denver has three major sports stadiums, the nation's second-largest performing arts center, three colleges with 30,000 students, an assortment of art and history museums, a mint that produces 10 billion coins a year, a river offering white water rafting, and over 300 restaurants.



Denver Skyline

are located just minutes to the 16th Street Mall, a mile-long pedestrian promenade, in the heart of downtown. Here you can explore outdoor cafes, artsy chess tables, nightspots, stores and restaurants!

Reservation Method:

Discounted conference rates are available until October 16th or until the room blocks at the host hotels are sold out. A valid credit card is needed to guarantee your reservation. Reservations need to be cancelled 72 hours prior to arrival to avoid a cancellation fee equal to one night room and tax (14.75%).

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

<https://aws.passkey.com/e/49143327>

Or by contacting:

APS DFD Housing Bureau

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

Toll Free: 1-877-226-1859

Email: housing@apsdfd2017.org

2017 APS DFD Hotel List

Hyatt Regency Denver at Colorado Convention Center (Headquarter Hotel)

650 15th Street, Denver, CO 80202

Rates:

\$149 + Tax: Single/Double Room Occupancy

\$174 + Tax: Triple Room Occupancy

\$199 + Tax: Quad Room Occupancy

Rates include complimentary high speed internet.

Crowne Plaza Denver Downtown

1450 Glenarm Place, Denver, CO 80202

Rates:

\$139 + Tax: Single/Double Room Occupancy

\$149 + Tax: Triple/Quad Room Occupancy

Rates include complimentary high speed internet and discounted parking of \$20 per night, per vehicle (based on availability).

Embassy Suites Denver - Downtown Convention Center

1420 Stout Street, Denver, CO 80202

Rates:

\$139 + Tax: Single/Double Room Occupancy

\$154+ Tax: Triple Room Occupancy

\$169+ Tax: Quad Room Occupancy

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

Hampton Inn & Suites Denver Downtown - Convention Center

550 15th Street, Denver, CO 80202

Note: Located in same building as Homewood Suites. Hampton Inn rooms are located on floors 2 - 5.

Rates:

\$149 + Tax: Single/Double Room Occupancy

\$159 + Tax: Triple Room Occupancy

\$169 + Tax: Quad Room Occupancy

Rates include complimentary high speed internet and breakfast.

Hilton Garden Inn Denver Downtown

1400 Welton Street, Denver, CO 80202

Rates:

\$139 + Tax: Single/Double Room Occupancy

\$149 + Tax: Triple Room Occupancy

\$159 + Tax: Quad Room Occupancy

Rates include complimentary high speed internet.

Homewood Suites Denver Downtown - Convention Center

550 15th Street, Denver, CO 80202

Note: Located in same building as Hampton Inn & Suites. Homewood Suites rooms are located on floors 6 -12.

Rates:

\$149 + Tax: Single/Double Room Occupancy

\$159 + Tax: Triple Room Occupancy

\$169 + Tax: Quad Room Occupancy

Rates include complimentary high speed internet and breakfast.

Registration

Registration is NOW OPEN

<https://aps17.registerat.com>

Registration Type	Received on/before 9/16	Received between 9/17 - 10/22	Received between 10/23 - 11/21
Member	\$480	\$550	\$730
Reciprocal Society Member	\$480	\$550	\$730
Non-Member	\$735	\$795	\$875

Registration Type	Received on/before 9/16	Received between 9/17 - 10/22	Received between 10/23 - 11/21
Retired Member (with APS Senior Membership)	\$270	\$290	\$375
Graduate Student Member**	\$260	\$280	\$370
Undergraduate***	\$105	\$105	\$150
Additional Reception Ticket	\$100	\$100	\$100

***Graduate/Undergraduate Students who are not APS Members must pay the Non-Member rate unless joining at the time of registration. First year is free for first time Members 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.*

Key Dates

Registration Deadlines

Early Registration Rate

on or before Sept 16, 2017

Regular Registration Rate

Sept 17 – Oct 22, 2017

On-Site Registration Rate

Oct 23 – Nov 21, 2017

Cancellation Deadline

(no registration refunds past this date)

Nov 7, 2017

Hotel Reduced Rate Ends

Oct 16, 2017 or earlier if block sells out

Abstract Submission Deadline

Aug 1, 2017

Travel Grant Application Deadline

Aug 1, 2017, 5:00 PM EDT

Child Care Grant Application Deadline

Aug 1, 2017, 5:00 PM EDT

Gallery of Fluid Motion (GFM)

GFM Poster and Video Submission

Entries Must be Submitted Prior to Sep 15, 2017

Video Uploading Deadline

Oct 6, 2017

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 2017.

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 2017 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 114 technical posters submitted in 2016 and 18 Student Posters.

The Technical Poster Session will be held on Monday, November 20th during the afternoon refreshment break on Concourse E. 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.

Gallery of Fluid Motion

The 36th 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, 2018 and will appear in the September 2018 issue of the *Physical Review Fluids*.

Please note that the videos will be accessible on-line at gfm.aps.org.

Travel Grants 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, 2017 at 5:00 pm EDT. There are also Travel Subsidy Grants which defer part of the costs. Further details can be found on the conference website under Travel Awards.

DFD has also initiated 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 August 1, 2017 at 5:00pm EDT. More details can be found under Child Care Grants on 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. We suggest all presenters visit the Speaker Ready Room in advance of their presentation.

New This Year: Meeting room projectors will have 1920 by 1200 resolution. Please set your laptop resolutions to 1920 by 1200 (16x10 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 4x3 format.

Exhibitor and Sponsorship Opportunities

Exhibits will be centrally located in the Mile High Ballroom of the Colorado Convention 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 Ellie Caulkins Opera House which is several blocks from the Colorado Convention Center and a short walking distance. Originally, the building was a multi-purpose

structure accommodating concerts, operas, theatrical shows, conventions, basketball, auto shows and even circuses, with flags flying from its domes and light bulbs outlining its pediments, cornice, and corners. The historic shell of the old Auditorium Theatre was rebuilt in 2005 and named the Ellie Caulkins Opera House, honoring "Denver's First Lady of Opera". In addition to the main hall, the building has been beautifully restored offering many open spaces and areas for gathering and conversing for an evening reception. This is always a great way 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, Non-Members, Graduate Students, and Retired Members. Undergraduate students and guests may purchase tickets for \$100.

Meeting Co-Chairs

Jean Hertzberg

Department of Mechanical Engineering
University of Colorado, Boulder
(303) 817-0967
hertzberg@colorado.edu

Peter Hamlington

Department of Mechanical Engineering
University of Colorado, Boulder
(303) 492-0555
peter.hamlington@colorado.edu

Abstract Submissions

Vinaya Sathyasheelappa

APS
(301) 209-3266
vinaya@aps.org

General Meeting 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) 505-4108
katie@orchideventsolutions.com

Exhibiting and Sponsorship Information

Margaret McDonald

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

Future APS/DFD Meetings

2018: Atlanta, GA

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

2019: Seattle, WA

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

2020: Chicago, IL

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

2021: Phoenix, AZ

Professor Marcus Hermann, Meeting Chair
Arizona State University



2016 François N. Frenkiel Award

Alexei Poludnenko, Texas A&M University, was the recipient of the 2016 François N. Frenkiel Award for the paper titled: "Pulsating Instability and Self-Acceleration of Fast Turbulent Flames" *Physics of Fluids* Volume 27, 014016 (2015)

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* (now *Physical Review Fluids*) during the preceding year.

APS/DFD 2016 Awards, Prizes, New Fellows, and Gallery Winners



2016 Fluid Dynamics Prize

Howard A. Stone, Princeton University, was the recipient of the 2016 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 our understanding of low Reynolds number flows, microfluidics, interfacial phenomena and biological fluid dynamics, and for his inspirational contributions to teaching and communicating the beauty and power of Fluid Mechanics in Physics and Engineering."



2016 Andreas Acrivos Dissertation Award

Daniel Quinn, Stanford University, received the Andreas Acrivos Dissertation Award for his paper titled: "High Flexibility and Dynamic Ground Effect Could Improve Bio-inspired Propulsion" The award recognizes an exceptional young scientist for original, outstanding doctoral thesis work in fluid dynamics done in the United States.



2016 Stanley Corrsin Award

Ivan Marusic, University of Melbourne, was the recipient of the Stanley Corrsin Award which "recognizes and encourages a particularly influential contribution to fundamental fluid dynamics." The citation reads: "For seminal contributions to the understanding of turbulent wall-bounded flows through laboratory and atmospheric studies of long meandering structures, models of their effect on the wall stress, and extensions of the attached eddy hypothesis."

2016 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 2016 Fellows:



Andrea Bertozzi
University of California-Los Angeles

For seminal work on thin film flows, contributions to understanding of particle laden free surface flows and vorticity in incompressible flow, and applications to biological and technological problems.



Ahmed Ghoniem
Massachusetts Institute of Technology

For contributions to vortex and particle methods, flame modeling for turbulent combustion, and explanation and control of combustion dynamics.



Sascha Hilgenfeldt
University of Illinois Urbana-Champaign

For lasting theoretical, numerical, and experimental contributions to our understanding of bubble dynamics, bubble-powered microfluidics, foam dynamics, and mechanics, structure, and statistics of biological cells and tissues.



Eric Lauga
University of Cambridge

For many fundamental contributions to fluid mechanics, including to low-Reynolds-number locomotion, active matter, complex fluids and elasto-hydrodynamics through elegant theoretical analysis and collaborations with experimentalists.



Laurent Limat
Centre National de la Recherche Scientifique, Paris

For wide ranging studies of complex fluids and free-surface flows, including coating flows, wetting, drying, colloidal deposition, and the effects of soft substrates, via creative and innovative experiments.



Beverley McKeon
California Institute of Technology

For important experimental and theoretical contributions to advancing the understanding of wall turbulence, and for elegant interdisciplinary approaches to modeling and flow manipulation.



Martin Oberlack
Technische Universität Darmstadt

For pioneering the application of symmetry methods to study turbulence, combustion, stability theory, aerodynamic noise and turbulence modeling, and for use of symmetry analysis to derive new statistical conservation laws.



Demetrios Papageorgiou
Imperial College London

For important contributions to analysis and computation of nonlinear phenomena in interfacial flows, including jet breakup, core-annular flows and multilayer flows, in the presence of surfactants and electric fields.



Sergio Pirozzoli
University of Rome – La Sapienza

For fundamental insights into turbulence and shock-turbulence interactions in high-speed flows and the development of elegant and accurate numerical methods.



Mike Reeks
University of Newcastle,
Australia

For seminal contributions to the statistics of particle motion and dispersion in various turbulent flows.



John Tsamopoulos
University of Patras

For outstanding contributions, via insightful computations and analyses, to the fundamental understanding of viscoplastic fluids, and two-phase flows.



Jason Reese
University of Edinburgh

For original contributions to computational multiscale fluid dynamics, including pioneering hybrid modeling and simulation methods for flows at the micro- and nanoscales, and insightful work in rarefied gas dynamics.



Alexander Yarin
University of Illinois at
Chicago

For seminal theoretical and experimental contributions to the understanding of capillary and bending instabilities in jets, drop impact, splashing, and electrospinning processes.



Zvi Rusak
Rensselaer Polytechnic
Institute

For seminal contributions to the theoretical understanding of vortex flow stability and the vortex breakdown phenomenon, and for insightful analytical studies of viscous flow dynamics, transonic flows and airfoil aerodynamics.



Roberto Zenit
Universidad Nacional
Autónoma de México

For outstanding contributions in bubbly and granular flows, and for his service to strengthen the fluid dynamics community in Mexico.



Spencer Sherwin
Imperial College London

For contributions to computational fluid dynamics through the development of unstructured spectral element methods and their insightful application to cardiovascular, bluff body and vortex flows.



Bruce Sutherland
University of Alberta

For pioneering research on internal waves, co-invention of the synthetic schlieren method, and an influential textbook on internal waves.

The 2016 Gallery of Fluid Motion and the Milton van Dyke Award Winners

As has long been the tradition, the best posters and videos are chosen from among 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.

2016 APS/DFD Milton van Dyke Award (Poster)

P0020: Formation of mini vortex rings arising from a vortex pair impinging on a wavy wall.

Sarah Morris, C.H.K. Williamson (Cornell University)

P0030: Progressive Monte-Carlo rendering of atmospheric flow features across scales.

Tobias Günther (ETH Zurich), Alexander Kuhn, Hans-Christian Hege (Zuse Institute Berlin), Markus Gross (ETH Zurich), Holger Theisel (University of Magdeburg)

P0028: Turbulent horizontal convection at high Prandtl numbers.

Pierre-Yves Passaggia, Brian White, Alberto Scotti (University of North Carolina, Chapel Hill)

2016 APS/DFD Gallery of Fluid Motion Award (Poster)

P0044: Accelerated condensation in an ultrasonic field
Thomas Boziuk, Marc Smith, Ari Glezer (Georgia Institute of Technology)

P0009: Computational simulation of liquid jet atomization

Dorri Jarrahbashi (Georgia Institute of Technology) William Sirignano, Pavel Popov, (University of California, Irvine) Fazle Hussain (Texas Tech University)

P0012: Large-eddy simulation of stratocumulus cloud

Georgios Matheou (California Institute of Technology), Daniel Chung (University of Melbourne), Joao Teixeira (California Institute of Technology)

2016 APS/DFD Milton van Dyke Award (Video)

V0076: Sweeping jet from a cross flow

Florian Ostermann, Philipp Godbersen, Rene Woszidlo, C. Navid Nayeri, C. Oliver Paschereit (Technische Universität Berlin)

V0095: The shear joy of watching paint dry

Randy Hurd, Nathan Speirs (Utah State University) Jesse Belden (Naval Undersea Warfare Center) Zhao Pan, Ben Lovett, Wesley Robinson (Utah State University) Madison Boyer (Brigham Young University) Saberul Sharker, Mohammad Mansoor, Tadd Truscott, Andrew Merritt (Utah State University)

V0055: Eat, prey, swim: Dynamic vortex arrays created by a starfish larvae

William Gilpin, Vivek N. Prakash, Manu Prakash (Stanford University)

2016 APS/DFD Gallery of Fluid Motion Award (Video)

V0092: Before the bubble ruptures

Li Shen, Fabian Denner (Imperial College London) Neal Morgan (Shell Solutions UK), Berend van Wachem, Daniele Dini (Imperial College London)

V0038: Fall and fragmentation of liquid metal in a viscous fluid

Jean-Baptiste Wacheul, Michaël Le Bars (Aix-Marseille Univ and ECM)

V0046: Flight of a falling maple seed

Injae Lee, Haecheon Choi (Seoul National University)

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 three categories. Congratulations to the following:

Category 1: Computations

1st place: KP1.00077: Numerical analysis of the inertial migration of a spherical particle in circular tube flows — Takuya Yabu, Tomoaki Itano, Masako Sugihara-Seki — Kansai University

2nd place: KP1.00081: A nonlinear dynamical system for combustion instability in a pulse model combustor — Kazushi Takagi and Hiroshi Gotoda — Tokyo University of Science

Category 2: Experiments

1st place: KP1.00084: An experimental study of low Re cavity vortex formation embedded in a laminar boundary layer — Sashank Gautam, Amy Lang, Jacob Wilroy — University of Alabama

2nd place: KP1.00086: Flexible Blades for Wind Turbines — Madeline Carlisle Collins, David MacPhee, Caleb Harris — University of Alabama

Category 3: Microfluidics and Interfaces

1st place: KP1.00091: How does the micro-splashing threshold change with drop size? — Sam J. Boos and Rachel E. Pepper — University of Puget Sound

2nd place: KP1.00090: The injection of a highly focused microjet into a soft target — Nanami Endo, Sennosuke Kawamoto, and Yoshiyuki Tagawa — Tokyo University of Agriculture & Technology

Highlights of the 69th Annual DFD Meeting in Portland, OR

The 2016 DFD meeting was held in November at the Oregon Convention Center in Portland, Oregon. The meeting had more than 2700 contributed papers in up to 38 parallel sessions and 116 entries to the Gallery of Fluid Motion. There were 114 technical posters and 18 student posters submitted from around the world.

In addition to the contributed abstracts, there were 4 award lectures (See page 5 for 2016 award winners) and 8 invited lectures, 5 minisymposia covering 2 topic areas and 3 focus sessions covering 2 topics of interest.

2016 Invited Lectures

Arezoo Ardekani, Purdue University

Settling and Swimming in Density Stratified Fluids

Philippe Claudin, École Supérieure de Physique et Chimie Industrielles

An Explanation for the Bedforms on Comet 67P/Churyumov-Gerasimenko

Mark Glauser, Syracuse University

Turbulent Flow Physics and Noise in High Reynolds Number Compressible Jets

David Hu, Georgia Institute of Technology

Ants, Eyelashes, and the 2015 Ig Nobel Prize in Physics

Ho-Young Kim, Seoul National University

Jumping on Water

Don Pettit, NASA - Johnson Space Center

On the Frontier: Some Observations of Surface Tension Phenomena from the International Space Station

Michel Stanislas, Ecole Centrale de Lille

Near Wall Turbulence: An Experimental View

Kathleen Stebe, University of Pennsylvania

Colloids at Curved Fluid Interfaces

2016 Minisymposia***(5 minisymposia on 2 topics)***

Geophysical Turbulence Induced by Flow over Topography

Multiphase Flows in Biomedicine

2016 Focus Sessions***(3 focus sessions on 2 topics)***

Instabilities at Soft Interfaces

Disgust: The Fluid Dynamics of the Gross

APS/DFD 2016-2017 Leadership & Contact Information

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

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(12/18)

Michael Brenner
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Anne de Wit
(12/17)

Howard Stone
2016 Award Winner

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(12/17)

Ivan Marusic
2016 Award Winner

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(12/18)
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(12/18)

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(12/18)

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(12/17)

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(12/17)

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7 MEMBERS, STAGGERED
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(12/17)
Chair

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Carlos Pantano
(12/18)

Peter Schmid
(12/18)

Donald Webster
(12/17)

Emily Ching
(12/17)

Alexi Poludnenko
2016 Award Winner

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6 MEMBERS, STAGGERED
2-YEAR TERMS

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Nicole Sharp
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Juan Carlos del Alamo
(12/18)

Pavlos Vlachos
(12/18)

Luciano Castillo
(12/18)

Tadd Truscott
(12/17)

COMMITTEE ON EDUCATIONAL & CAREER OUTREACH

6 MEMBERS, STAGGERED
2-YEAR TERMS

Aline Cotel
(12/17)
Chair

Laura Miller
(12/18)
Vice-Chair

Maciej Balajewicz
(12/18)

Ebenezer Gnanamanickam
(12/17)

Mitul Luhar
(12/17)

Nathalie Vriend
(12/17)

DIVISION WEBSITE DEVELOPMENT OFFICER

Jeff Eldredge

GALLERY OF FLUID MOTION COORDINATOR

Ken Kiger

2015-2019

Beverley McKeon
APS representative on US National Committee for Theoretical and Applied Mechanics