



A Division of the American Physical Society



Phoenix

APS DFD 2021

November 21-23



The 74th Annual Meeting of the American Physical Society, Division of Fluid Dynamics (DFD) will be held in person in Phoenix, AZ from Sunday, November 21 through Tuesday, November 23, 2021 at the Phoenix Convention Center. The meeting is being hosted by Arizona State University, University of Arizona, Northern Arizona University, New Mexico Tech and the University of New Mexico.

A Note from the 2021 Local Organizing Committee

The 74th Annual Meeting of the Division of Fluid Dynamics will be held in Phoenix, AZ, on November 21-23rd. We are looking forward to reconnecting in person with colleagues and friends for the 2021 meeting. Our aim is to provide a regular in-person conference experience; however, to provide a safe meeting environment, some meeting aspects will be different compared to prior years. These include a vaccination requirement for all attendees, a masking requirement inside the convention center, combined session meeting rooms to allow for better physical spacing of attendees, an outdoors reception at the Convention Center, and refreshment breaks that minimize as much as possible crowd sizes.

While the conference is primarily an in-person event, a virtual component will be available to members that cannot travel to Phoenix to attend the conference in person. Registration for the conference will give access to both modes.

Online attendees should upload a 10-minute video of their presentation to the meeting platform shown to in-person attendees in Phoenix at their scheduled presentation time, with Q&A provided asynchronously via the meeting platform. In-person attendees are strongly encouraged also to upload a 10-minute video of their presentation, so online attendees can view their presentation and ask questions through the online meeting platform. Invited talks, mini-symposia, certain focus sessions, and select regular sessions will be recorded in Phoenix and uploaded to the meeting platform contingent upon presenter consent.

Recordings and presentation videos will be available to registered meeting attendees on the meeting platform until November 30, 2021.

The meeting format allows a registrant to decide on their own schedule whether they would like to attend in-person or virtual, taking the evolving pandemic situation into account. You do not need to make a decision on the attendance mode at the time of registration+; **however, there will be no refunds for registration issued after October 15, 2021.**

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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.

In addition to all other rules and regulations relating to attendee's attendance at the DFD Annual Meeting, in-person attendees agree to:

1. Being fully vaccinated* against COVID-19 prior to attending the meeting with a vaccine approved by the World Health Organization (ie., Pfizer/BioNTech, Johnson and Johnson/Janssen, Moderna, AstraZeneca/Oxford, Sinopharm or Sinovac); and,
2. Attest to their vaccination status prior to the meeting through a process to be established by APS and submit the results of a negative PCR Covid test taken within 3 days of Saturday, November 20th. These results must be uploaded by attendees before Saturday, November 20th. **People are considered fully vaccinated if they satisfy the U.S. State Department's entry requirement.*
3. Comply with all COVID-related procedures that may be implemented by DFD and the Phoenix Convention Center, including, but not limited to, mask-wearing and social distancing requirements and restrictions on certain activities that carry higher COVID-related risk, to protect, as much as possible, the health and safety of all DFD attendees.

+ Although you do not make a decision on whether you will attend in person or virtual at the time of registration, you will receive an email asking your plans prior to the meeting so we can plan accordingly.

We will be sending out emails to the membership as the meeting approaches with details on how to provide vaccination attestation as well as how to upload presentation videos.

We look forward to a successful meeting in November and welcome the opportunity to meet in person.



Marcus Hermann
Meeting Chair
Arizona State University



Konrad Rykaczewski
Meeting Co-Chair
Arizona State University

International Travel Updates

Travel into the U.S. opens November 8th for travelers vaccinated with any FDA approved and authorized vaccines, as well as vaccines that have an Emergency Use Listing (EUL) from the World Health Organization (WHO). It is very important that you check with the U.S. State Department for any travel restrictions that would prevent you from entering the U.S. or by contacting the U.S. Embassy or Consulate in your area. You can also visit <https://www.apsdfd2021.org/> for more information.

2021 Meeting at a Glance

Hotel Accommodations

Book Your Room Now at the Sheraton Phoenix Downtown!

To keep conference registration rates as low as possible, it is crucial participants book their stay at a conference hotel using the link provided on the meeting website. The Sheraton Phoenix Downtown is the Headquarters hotel and is accepting reservations now.

- A valid credit card is needed to guarantee your reservation.
- Discounted hotel rates are available until the room block is sold out.
- Smoking is not permitted in hotels.

BEWARE OF HOUSING SCAMS!

Tech-savvy scammers create fake reservations and websites that look legitimate.

If you make your reservation through these sites, you run the risk of arriving and not having a hotel room and losing money. Make sure you make your reservation directly with the Sheraton by starting from the [apsdfd2021.org](https://www.apsdfd2021.org) website when you begin your housing process. Never book from an email you receive.

TIP: The URL that you should see when you make your reservation is:

<https://book.passkey.com/e/50067574>

Sheraton Rates:

Single/Double: \$179 + tax (currently 12.57%)

Triple/Quad: \$199 + tax (currently 12.57%)

Registration

Registration is OPEN!

Please visit the meeting website to register for the 2021 APS-DFD Meeting:

https://my.aps.org/NC__Event?id=a015G00000EtWDQQA3

Registration Fees

	Received on or before 10/22	Starting 10/23
Member	\$570	\$750
Reciprocal Society Member	\$570	\$750
Retired Member (with APS Senior Membership).....	\$310	\$400
Graduate Student Member**+	\$295	\$400
Undergraduate Member**+	\$120	\$175
Non-Member	\$825	\$900
Additional Reception Ticket	\$115	\$115

**Members of APS Reciprocal Societies may register at the Regular APS member rate only. This can be done either online or via fax. To register as a Reciprocal Society Member ONLINE: select "Log In to Register" and then click "Don't have an account" or "Forgot your password." Once you are in your account, choose "Edit my Demographics" to select your reciprocal society. Then, register for the meeting. To register as a Reciprocal Society Member VIA FAX: download the registration form, then complete and send to the fax number on the form.*

Student Reciprocal Members must register via fax – online registration is not an option. Complete the registration form, which will be available after August 9, 2021, and send it, along with proof of your student status, to APS using the fax number on the registration form.

*** Student Registrants: APS student members may register for the Meeting online at a discounted member rate. If you are not an APS member, you can JOIN NOW by contacting APS directly. If you do not wish to become an APS member, you must pay non-member rates. First-year membership is free for first-time students and includes (2) free Divisions or Topical Groups for all students.*

+ Does not include a ticket to the Sunday night reception.



*Downtown Phoenix Skyline from Phoenix Mountains Preserve.
Photo Credit: Visit Phoenix/photo by dspaz.com*

Cancellations

Requests for cancellations were honored through October 15, 2021, and processed minus a \$50 administrative fee. After October 15, 2021, registration fees are non-refundable.

Need Assistance with registration, email registrar@aps.org

2021 Scientific Program

For 2021, the scientific program will consist of eight invited lectures on topics of broad interest to the DFD community. The program will also include three Minisymposia and five Focus Sessions dealing with exciting current research. Each year the APS Division of Fluid Dynamics awards the Fluid Dynamics Prize, the François Frenkiel Award, the Andreas Acrivos Dissertation Award, and the Stanley Corrsin Award.

Award Recipients

Each year the APS Division of Fluid Dynamics presents the Fluid Dynamics Prize, the Stanley Corrsin Award, the François Frenkiel Award for Fluid Mechanics, and the Andreas Acrivos Dissertation Award in Fluid Dynamics. The 2021 award winners are listed below and each awardee will give a lecture at the meeting.

Fluid Dynamics Prize and Otto Laporte Lecture

This prize is awarded for outstanding contributions to fundamental fluid dynamics research. It was established in 1979 with support from the Office of Naval Research. In 2004, the Otto Laporte Award was combined with the Fluid Dynamics Prize so that the Division of Fluid Dynamics would have a single major prize – the Fluid Dynamics Prize. The prize is now supported by the Division of Fluid Dynamics, friends of Otto Laporte and the APS journal, *Physical Review Fluids*. It is awarded for outstanding contributions to fundamental fluid dynamics research.

Recipient: David Quéré, ESPCI-Paris

Citation: “For seminal contributions to wetting of surfaces and interfacial hydrodynamics by revealing the physics of the phenomena through reduction to their simple core.”

Otto Laporte Lecture: *Of the Surface of Things*

Stanley Corrsin Award and Lecture

This award recognizes and encourages a particularly influential contribution to fundamental fluid dynamics. It was established from an endowment fund contributed by the DFD and held by the APS and is intended to honor a recent achievement of especially high impact and significance, a particular discovery, or an innovation in the field.

Recipient: Tim Colonius, California Institute of Technology

Citation: For development, exposition, and combined application of computational and modal decomposition tools to understand coherent structures in turbulent flows and for continuing leadership in aeroacoustics and turbulence

Lecture: *Turbulence Structure and Modeling in the Frequency Domain*

François Frenkiel Award for Fluid Mechanics & Lecture

The Division of Fluid Dynamics awards the François Frenkiel Award to young investigators to recognize significant contributions to Fluid Mechanics that have also been published during the previous year in *Physical Review Fluids*. Eligible authors must have not more than 12 years of full-time employment after their most advanced academic degree was awarded, before the paper’s year of publication.

Recipients: Rodolfo Brandao, Ory Schnitzer, Imperial College London

Citation: The paper was awarded “For its insightful application of asymptotic methods and bifurcation theory to elucidate the transition to rolling in Leidenfrost droplets. The authors’ analysis contributes significantly to understanding this surprising symmetry breaking mechanism and predicts post-transition accelerations that agree qualitatively with recent experiments.”

Lecture: *Spontaneous Dynamics of Leidenfrost Drops*

Presenter: Rodolfo Brandao

Andreas Acrivos Dissertation Award in Fluid Dynamics and Lecture

This award recognizes exceptional early-career scientists who have performed original doctoral thesis work of outstanding scientific quality and achievement in the area of fluid dynamics. It was established in 1998 to honor the many outstanding contributions to fluid mechanics of Dr. Andreas Acrivos, particularly his years of distinguished editorship of *Physics of Fluids*. It is supported by donations from members and friends of the Division of Fluid Dynamics.

Recipient: Wai Hong Ronald Chan, University of Colorado Boulder

Citation: For developing a novel theoretical and computational framework which established fundamental insights into the turbulent bubble breakup cascade in oceanic breaking waves.

Lecture: *Locality in the Turbulent Bubble Breakup Cascade*

Invited Speakers

Eight invited lectures on topics of broad interest to the DFD community will be given by experts in each field.

Paulo E Arratia, University of Pennsylvania
Life in Complex Fluids: Swimming with Polymers

Rama Govindarajan, Tata Institute of Fundamental Research
The Waltz of Tiny Droplets and the Fluid They Live in

Keith Julien, University of Colorado, Boulder
Rotationally Constrained Convection in Extreme Parameter Regimes

Eva Kanso, University of Southern California
Cilia Powered Flows

Daniel Livescu, Los Alamos Natl Lab
Turbulence with Large Density Variations due to Thermal and Compositional Fluctuations

Catherine Noakes, University of Leeds
Ventilation and Infection Transmission: Lessons from COVID-19 and Challenges for Research

Sindy Tang, Stanford University
Order and Chaos: Collective Behavior of Crowded Drops in Microfluidic Systems

Alexandra Techet, Massachusetts Institute of Technology
Three-dimensional Experimental Investigations in Extreme Fish Performance

Focus Session Topics

- Hydrodynamics of Benthic Marine Life
- Interfacial Active Matter
- DFD/GPC Focus Session: Planetary Flows in Climate
- Surfactants as Hidden Variables
- Turbulence in Wind and Solar Energy

Minisymposia Topics

- Fluids Next: Environmental Turbulent Flows Under the Effect of Climate Change Co-sponsored by the APS Division of Fluid Dynamics and the Topical Group on the Physics of Climate
- Symmetry in Fluid Dynamics
- Quantum Algorithms for Fluid Flows

Poster Session

The meeting will have a Technical Poster Session and Student Poster Session on Monday afternoon in the Exhibit Hall.

Student posters will be judged and awarded 1st and 2nd Prize for “Best Poster” in several categories and winners

will receive cash awards and certificates. Awardees will also be highlighted in the DFD Newsletter. The Student Poster Competition constitutes a specific opportunity for graduate and undergraduate students to enhance their presentation skills and to build their professional network.

Gallery of Fluid Motion

The Gallery of Fluid Motion consists of posters and videos submitted by attendees illustrating the science — and often also the beauty — of fluid motion. Both computational and experimental entries are encouraged. Poster and video entries must not duplicate one another.

A panel will select outstanding entries based on artistic value, scientific content, and originality. The winning entries will be published as a special supplement to *Physical Review Fluids*. In addition, the top three winners in each category will be presented the Milton Van Dyke Award — consisting of a small monetary prize, a copy of the Album of Fluid Motion, and an award certificate.

For questions, please contact:

GFM Posters
Tie Wei, New Mexico Tech
Tie.Wei@nmt.edu

GFM Videos
Gokul Pathikonda, Arizona State University
Gokul.Pathikonda@asu.edu

Video and poster submissions are now closed.

GFM Video Uploading Deadline has passed.

Upload GFM Posters to gfm.aps.org website and print and bring to Meeting.

Poster Hanging Instructions can be found on the meeting website at www.apsdfd2021.org/program-events/instructions-for-presenters-session-chairs

Video and Poster Prize Ceremony

Video and poster authors should be in Hall CDE, Level 300 during the Afternoon Refreshment Break on Monday, November 22nd, between 3:20 pm - 4:05 pm.. Prize winners will be announced at this time.

Other Events

Throughout the three-day meeting, DFD will offer a series of networking events for **in-person attendees**. Unless otherwise noted, there is no charge for these events. Space is limited and attendees are required to sign-up in advance during registration. All events will take place at the Phoenix Convention Center.

Applying for Post Doc & Faculty Positions

Saturday, November 20 - 6:30 pm – 8:00 pm

Sponsored by the DFD Educational and Career Outreach Committee

This session is for **senior graduate students and postdoctoral fellows** who are in the job market. The session will begin with an overview of resources and general advice for applying for academic positions followed by questions from the audience. Topics to be discussed include general recommendations for preparing application documents (research statement, teaching statement, etc.) and networking, including writing and reviewing journal papers.

All the Faces of Fluid Dynamics

Sunday, November 21, 12:45 pm - 2:00 pm

Organizers: David Hu, Georgia Institute of Technology, Raúl Bayoán Cal, Portland State University

Several faculty will speak about their personal experiences with diversity in the workplace. The session will include self-introductions, a panel discussion, questions and answers from the audience, and a bit of mingling at the end. This session will help give underrepresented members of DFD, especially students, a safe place where their voice can be heard. A boxed lunch will be served.

Fluids Education

Sunday, November 21, 12:45 pm - 2:00 pm

Sponsored by the DFD Educational and Career Outreach Committee

More information to come. Check back soon!

Young Investigator Workshop

Sunday, November 2, 12:45 pm - 2:00 pm

Organizer: Michael Hargather, New Mexico Tech

Directors from governmental agencies will lead a luncheon discussion on their funding awards programs for early career researchers. Attendees who attend this workshop must be registered for the DFD meeting **and be eligible for at least one of the awards**. Eligibility requirements and additional information can be found on the websites for the National Science Foundation (NSF) CAREER Program and the Office of Naval Research. (Links are provided at <https://www.apsdfd2021.org/program-events/networking-events/>)

Due to limited seating, this event is not open to undergraduates and graduate students at this time. However, space may become available. Please go directly to the event to see if you can participate.

Underrepresented Minorities in Research

Monday, November 22 - 7:00 am – 8:00 am

Organizer: Luciano Castillo, Purdue University

An opportunity for fluid mechanics researchers from underrepresented minority groups to build community, network with others, and create a platform for mentoring.

Women in Fluid Dynamics

Monday, September 22, 12:05 pm - 1:05 pm

Organizers: Margaret Louise Byron, Pennsylvania State University, Kerstin Nordstrom, Mount Holyoke College

Sponsored by the DFD Educational and Career Outreach Committee

The Women in Fluids lunch is an annual event for anyone interested in supporting women in the DFD community. Primary goals include providing networking opportunities for women and creating a venue for attendees to discuss issues related to women's participation in the Society or in fluid dynamics more generally. All who identify as women, along with those who wish to support them, are welcome to attend.

Student Lunch

Monday, November 22, 12:05 pm - 1:05 pm

Organizer: Mohamed Housseem Kasbaoui, Arizona State University

An opportunity for students to join in a discussion with a professor who specializes in a particular area of fluid dynamics. Please visit the meeting website for the topics presented and the professor leading the discussion at the Student Lunch:

<https://www.apsdfd2021.org/program-events/networking-events/>

Tutorial for Authors and Referees of *Physical Review Fluids*

Monday, November 22 - Time TBD

Editors from the Physical Review journals which publish papers on fluids will provide information and tips for authors and referees. The session will offer advice on how to write an impactful paper and guidance on writing referee reports. Other topics include the factors in choosing the right journal and the ways in which authors, referees, and editors can work together productively. Following a presentation, a panel of Physical Review editors will take questions from the audience. This session is for anyone looking to publish in or review for the Physical Review journals, as well as anyone who would like to learn more about the publishing or refereeing process.

Meet the Editors of the Physical Review Journals

Monday, November 22 - Time TBD

The editors are available for discussions about the journals in a relaxed, casual setting. All are welcome. Light refreshments will be served.

Exhibits

If you are interested in exhibiting this year, please contact Margaret McDonald for information:
Margaret2@Meetingsandmore.net

DFD welcomes the following exhibitors:

 **AIP Physics of Fluids**

 **APS physics**

 **CAMBRIDGE UNIVERSITY PRESS**

 **DANTEC DYNAMICS**

 **LAVISION**
FOCUS ON IMAGING

 **LUMIBIRD**
MORE THAN LASERS

 **MicroVec**

 **MSE** | MEASUREMENT SCIENCE ENTERPRISE, INC

 **Photron**

 **SIAM**
Society for Industrial and Applied Mathematics

 **Spraying Systems Co.**
Experts in Spray Technology

 **TSI**

Key Contacts

Accessibility

To request accommodation or for inquiries about accessibility, please contact Margaret McDonald at margaret2@meetingsandmore.net

Exhibits

Margaret McDonald
Margaret2@meetingsandmore.net

Gallery of Fluid Motion Submissions

GFM Posters
 Tie Wei
Tie.Wei@nmt.edu

GFM Videos
 Gokul Pathikonda
Gokul.Pathikonda@asu.edu

COVID Related Questions

Meetings@APS.org

Virtual - Hybrid Technical Questions

Meetings@APS.org

General Questions, Meeting Logistics

dfd-help@meetingsandmore.net

Membership

membership@aps.org

Program Information – Meeting Chairs

Marcus Hermann, Meeting Chair
marcus.herrmann@asu.edu

Konrad Rykaczewski, Meeting Co-Chair
konradr@asu.edu

Registration

registrar@aps.org

Future APS/DFD Meetings

2022: Indianapolis, IN

Luciano Castillo, Meeting Chair
 Purdue University

2023: Washington, DC

Kenneth Kiger, Meeting Co-Chair
 University of Maryland

2024: Salt Lake City, UT

Marc Calaf, Meeting Co-Chair, University of Utah
 Henry Fu, Meeting Co-Chair, University of Utah

Newly Elected Executive Committee Members

The following are the newly elected members of the DFD Executive Committee. Their terms will begin immediately after the close of the 2021 APS DFD meeting.



Chair-elect
Anne Juel,
University of Manchester,
UK



Vice Chair
Anette (Peko) Hosoi,
Massachusetts Institute of
Technology



Secretary-Treasurer
Dan Bodony,
University of Illinois
Urbana-Champaign



Member at Large
Tim Colonius,
California Institute of
Technology



Member at Large
Dennice Gayme,
Johns Hopkins University



**Junior Scientist Member
of Executive Committee**
Sarah Morris,
Auburn University

APS/DFD 2020-2021 Leadership

EXECUTIVE COMMITTEE

Chair:

John O. Dabiri
(03/21–12/21)
Caltech

Chair-Elect:

Detlef Lohse
(03/21–12/21)
University of Twente

Past Chair:

Minami Yoda
(11/20–12/21)
Georgia Institute of
Technology

Secretary/Treasurer:

Jeffrey F. Morris
(11/18–12/21)
City College of New York

Councilor:

Howard A. Stone
(11/18–12/22)
Princeton University

Member-at-Large:

Petia M. Vlahovska
(11/18–12/21)
Northwestern University

Member-at-Large:

Emilie Dressaire
(11/18–12/21)
University of California, Santa
Barbara

Member-at-Large:

Alison L. Marsden
(11/19–12/22)
Stanford University

Member-at-Large:

Satish Kumar
(11/19–12/22)
University of Minnesota

Member-at-Large:

Arezo M. Ardekani
(11/20–12/23)
Purdue University

Member-at-Large:

Roberto Zenit
(11/20–12/23)
Brown University

Early Career Member-at-Large:

Jessica G. Williams
(11/20–12/21)
Massachusetts Institute of
Technology MIT

NOMINATING COMMITTEE

8 members, staggered 2-year terms

Luca Biferale, Chair (12/21)
Joanna Austin (12/21)
Anke Lindner (12/21)
Shu Takagi (12/21)
Dan Henningson (12/22)
Roberto Zenit (12/22)
Ivan Marusic, Vice Chair
(12/22)
Bruce Sutherland (12/22)

PROGRAM COMMITTEE

8 members, staggered 3-year terms + March Meeting liaison + 2 local organizing committee (LOC) members

John Dabiri, Chair (12/21)
Detlef Lohse, Vice Chair
(12/21)
Michael Brenner (12/21)
Marcus Herrmann (12/21)
David Richter (12/21)
Luciano Castillo (12/23)
Sarah Waters (12/23)
Kathy Prestridge (12/23)
Paulo Arratia, MM liaison
(12/21)
Konrad Rykaczewski (12/21)

FELLOWSHIP COMMITTEE

8 Fellows, staggered 2-year terms

Detlef Lohse, Chair (12/21)
Bill Schultz (12/22)
Jacqueline Chen (12/21)
Anne De Wit (12/21)
Rama Govindarajan (12/22)
Keith Julien (12/22)
David Saintillan (12/22)
Olga Shishkina (12/22)

EXTERNAL AFFAIRS COMMITTEE

8 members, staggered 3-year terms

Kiran Bhaganagar, Chair
(12/21)
Satish Kumar (12/21)
Arindam Banerjee (12/21)
Kirti Sahu (12/21)
Parisa Mirbod, Vice Chair
(12/22)
Douglas Kelley (12/23)
Pirouz Kavehpour (12/23)
Monica Martinez (12/23)

FLUID DYNAMICS PRIZE COMMITTEE

8 members, staggered 2-year terms + award winner from previous cycle, 1-year term
Thomas Corke, Chair (12/21)
Lyderic Bocquet (12/21)
Yoshifumi Kimura (12/21)
Tomas Bohr, Vice Chair (12/22)
Sascha Hilgenfeldt (12/22)
Beverley McKeon (12/22)
Anne Juel (12/22)
Michael Brenner (12/22)
Katepalli Sreenivasan, 2020
Winner (12/21)

CORRSIN AWARD COMMITTEE

7 members, staggered 2-year terms + award winner from previous cycle, 1-year term
Richard Lueptow, Chair (12/21)
Lisa Fauci (12/21)
Hyung Jin Sung (12/21)
Laurette Tuckerman (12/21)
Nick Hutchins (12/22)
Jeff Eldredge, Vice Chair
(12/22)
Charles Meneveau (12/22)
Emmanuel Villermaux, 2020
Winner (12/21)

ACRIVOS AWARD COMMITTEE

7 members, staggered 2-year terms
Tim Colonius, Chair (12/21)
Christine Gilbert (12/21)
Karen Mulleners (12/21)
Alain Pumir, Vice Chair (12/22)
Sebastien Michelin (12/22)
Yuan Nan Young (12/22)
Jane Wang (12/22)
Michelle DiBenedetto, 2020
Winner (12/21)

FRENKIEL AWARD COMMITTEE

6 members, staggered 2-year terms + award winner from previous cycle, 1-year term + Physical Review Fluids liaison
Eva Kanso, Chair (12/21)
Roman Grigoriev (12/21)
Devaraj van der Meer (12/22)
Chao Sun (12/22)
Martin Oberlack (12/22)
Pascale Garaud, Vice Chair
(12/22)
Dominic Vella, 2020 Winner
(12/21)
Clancy Rowley, PRF Liaison
(12/21)

MEDIA AND SCIENCE RELATIONS COMMITTEE

7 members, staggered 3-year terms
Anya Jones, Chair (12/22)
David Hu, Vice Chair (12/21)
Mattia Gazzola (12/22)
Vivek Narsimhan (12/21)
Brian Elbing (12/23)
Alvaro Marin (12/23)
Megan Leftwich (12/23)

Gallery of Fluid Motion Lead:
Azar Eslam Panah

EDUCATIONAL & CAREER OUTREACH COMMITTEE

6 members, staggered 2-year terms
Keith Moored, Chair (12/21)
Margaret Byron, Vice Chair
(12/22)
Andres Goza (12/21)
Kerstin Nordstrom (12/21)
Valerie Troutman (12/22)
Haoxiang Luo (12/22)
Mitul Luhar (12/22)

DIVERSITY AND INCLUSION COMMITTEE

8 members, staggered 3-year terms
Raul Cal, Chair (12/21)
Luciano Castillo, Vice Chair
(12/21)
P. K. Yeung (12/21)
Melissa Green (12/22)
Laura Villafane Roca (12/23)
Peko Hosoi (12/23)
Thomas Ward (12/23)
Ke-Qing Xia (12/23)

GALLERY OF FLUID MOTION

Azar Eslam Panah

APS REPRESENTATIVE ON US NATIONAL COMMITTEE FOR THEORETICAL AND APPLIED MECHANICS

Beverley McKeon