

A Division of the American Physical Society

THE 66TH ANNUAL DFD MEETING

Pittsburgh, Pennsylvania November 24–26, 2013



View of the City of Pittsburgh Skyline. Image courtesy of Mehdi B. Nik

Pittsburgh, PA November 24-26, 2013

The 66th Annual Meeting of the American Physical Society's Division of Fluid Dynamics (DFD) will be held in Pittsburgh, Pennsylvania from November 24th to 26th, 2013. The meeting will be hosted by the University of Pittsburgh and Northeastern University with participation by Carnegie Mellon University, Natural Energy Technology Laboratory, Pennsylvania State University and Penn State Fluid Dynamics Research Consortium, West Virginia University and Youngstown State University.

Meeting Venue

The meeting will be held at Pittsburgh's green-certified David L. Lawrence Convention Center, considered one of the most beautiful convention centers in the world with balconies and terraces open to river views and cityscapes. The Center is within walking distance to five hotels that have been carefully selected for this meeting. Oral and poster presentations will be held on the 3rd and 4th floors of the convention center. Exhibits, the Gallery of Fluid Motion and refreshment breaks will be located on the 2nd floor within the Exhibit Hall.

Pittsburgh

Located at the confluence of three sparkling rivers and banked on all sides by green hills, Pittsburgh has earned its reputation as one of America's "most livable" cities. Whether jogging the tree-lined riverfront trails; taking in the sports action of the Steelers, Penguins or Pirates; discovering a world-class art scene; or exploring the city's jazz legacies, there is something to entertain everyone. Long a center for the production of steel, iron and glass, Pittsburgh's economy is now driven by technology, medicine, finance and tourism.

Located halfway between New York City and Chicago, Pittsburgh is a short flight or a day's drive for more than 70 percent of the U.S. population and 50 percent of the Canadian population. Air travelers arrive at Pittsburgh International Airport, named "Best U.S. Airport" by Condé Nast Traveler.

For more information on this city, please visit: <http://www.visitpittsburgh.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.

Housing and Meeting Registration

Registration for the meeting and housing information is available through the meeting web site: www.apsdfd2013.pitt.edu/.

APS/DFD has negotiated discounted hotel rates for meeting attendees. You should make your hotel reservation through Orchid Event Solutions after completing your on-line registration for the meeting. You may also go to the meeting website's information tab to find more details.

Hotel reservations are taken on a first-come, first-served, space available basis. Submit your request as soon as possible for the best opportunity of receiving your hotel choice.

Registration

Registration is now open! To register go to: www.apsdfd2013.pitt.edu/.

2013 Rates	Regular (09/17–10/22)	Late & On-Site (10/23–11/26)
APS Member or Reciprocal Society Member	\$470	\$550
APS Non-Member	\$715	\$795
Graduate Student Member	\$215	\$300
Retired Member	\$215	\$300
Undergraduate Member	\$45	\$80
Guest or Undergraduate Reception Ticket	\$85	\$85

Key Dates

Registration Deadlines

Regular Registration Rate
Sept 17th – Oct 22nd 2013

On-Site Registration Rate
Oct 23rd – Nov 26th 2013

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

Cancellation Deadline
(no registration refunds past this date):
Nov 7th 2013

Hotels

Reduced Rate Ends
Oct 22nd 2013

Gallery of Fluid Motion (GFM)

Intent to Submit GFM Poster or GFM Video Deadline
PASSED

Video Submission Deadline
PASSED

GFM Poster
Bring to meeting

Scientific Program

The scientific program will include five award lectures, eight invited lectures, minisymposia and focused sessions. This year, we received a record number of abstracts. Our technical program will consist of nearly 2300 contributed papers in 34 parallel sessions and 148 entries to the Gallery of Fluid Motion. We look forward to 143 technical posters of which 51 student posters will be judged and best poster prizes will be awarded during the meeting.

Awards Program

Each year the APS Division of Fluid Dynamics presents the Fluid Dynamics Prize, the Francois Frenkiel Award, the Andreas Acrivos Dissertation Award, and the Stanley Corrsin Award. In addition, one of the APS' Apker Award recipients will present at the DFD meeting.

The 2013 award winners, each one of whom will give a lecture at the meeting are listed below.

Fluid Dynamics Prize

Elaine S. Oran, Naval Research Laboratory
The reactive flow of ideas

Stanley Corrsin Award

Michael Brenner, Harvard University
Fluid mechanics of fungi and slime

Andreas Acrivos Dissertation Award

Bishakhdatta Gayen, University of California, San Diego
The thesis title is: *"Turbulence and internal waves in tidal flow over topography"*

Francois N. Frenkiel Award

Diego Donzis, Texas A&M University, for his paper in the Physics of Fluids volume 24, entitled *Shock structure in shock-turbulence interactions*. number 126101 in 2012

APS LeRoy Apker Award

Guy Geyer Marcus, Wesleyan University

The thesis title is: "*Rotational dynamics of anisotropic particles in turbulence: measurements of Lagrangian vorticity and the effects of alignment with the velocity gradient.*"

Invited Lectures, Minisymposia, and Focused Sessions

Eight invited lectures on topics of broad interest to the DFD community will be given by experts in each field. The program also includes minisymposia and focus sessions dealing with exciting current research. The topics may also include fluid dynamics education, international research, and tutorials/reviews.

Invited Speakers Include:

John Dabiri, California Institute of Technology
Do swimming animals mix the ocean?

Karen Flack, United States Naval Academy
Roughness effects on wall-bounded turbulent flows

Michael Graham, University of Wisconsin-Madison
Drag reduction and the dynamics of turbulence in simple and complex fluids

Daniel Goldman, Georgia Tech
Swimming and running through sand: resistive force theory in granular media

Ann Karagozian, University of California, Los Angeles
Transverse jet shear layer instabilities and their control

Anke Lindner, PMMH-ESPCI
Microfluidic flows of complex suspensions: from flexible polymers to swimming bacteria

John Lister, University of Cambridge
Porous-medium convection: new problems from CO₂ sequestration

William Sirignano, University of California, Irvine
Dynamics of transient liquid injection

Focus Session Topics

Marine hydrokinetic energy conversion I
Marine hydrokinetic energy conversion II
Marine hydrokinetic energy conversion III
Structure of turbulent/non-turbulent interface

Minisymposia Topics

Nanobubbles
Global climate models: dynamical cores, strengths and weaknesses
Frontiers in combustion physics I
Frontiers in combustion physics II

Poster Session

The number of poster research contributions to the Annual DFD Meeting has been growing over the past few years with over 143 posters submitted this year of which 51 are entered into a Student Poster competition.

The Poster Session will be held prior to the Sunday night reception. Student posters will be judged and awarded 1st and 2nd Prize for "Best Poster" in several categories. Winners in each category will receive award certificates during the meeting reception and will be highlighted in the DFD Newsletter. While the Poster Session of the DFD Meeting is open to all participants, the Poster Competition will constitute a specific opportunity for graduate and undergraduate students to enhance their presentation skills and to build their professional network.

Gallery of Fluid Motion

The 31st 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. These will be displayed at the Annual APS meeting in March, 2014 and will appear in the September 2014 issue of the *Physics of Fluids*.

Audiovisual Equipment

All rooms will be equipped with an LCD projector, screen, microphone, and pointer. Speakers must provide their own laptop computer to use with the projector. A Speaker Ready Room with technicians will be available to help attendees ensure that their presentations work smoothly with the LCD projection equipment.

Exhibitor and Sponsorship Opportunities

Exhibits will be centrally located near the refreshments area on the 2nd floor of the David L. Lawrence Convention Center in Exhibit Hall A.

For more information on exhibits or sponsorship, please email Margaret McDonald at Margaret2@Meetingsand-more.net.

APS/DFD Reception

The meeting reception will be held at the David L. Lawrence Convention Center on Sunday evening, November 24, 2013. The reception is included in the registration fee for those who register as APS Members, Non-members, Graduate Students, and Retired Members. Additional tickets may be purchased for \$85 each.

Special Events

Visit <http://www.apsdfd2013.pitt.edu/other-events> for a listing of other events taking place in conjunction with the meeting including the Student Lunch, Fluids Education Workshop, Women in Fluids Lunch, NSF CAREER and ONR & AFOSR Workshop and more. Many of these require advance sign-up.

Meeting Hosts

The meeting is hosted by:

University of Pittsburgh
Northeastern University

with participation from:

Carnegie Mellon University
National Energy Technology Laboratory
Pennsylvania State University and Penn State Fluid Dynamics Research Consortium
West Virginia University
Youngstown State University

Meeting Chairs

Nadine Aubry, Ph.D.
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Meeting Information

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Exhibiting and Sponsorship Information

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2013 Meeting Website

www.apsdfd2013.pitt.edu/

Future APS/DFD Meetings

2014: San Francisco, CA

Professor Sanjiva Lele, Meeting Chair
Stanford University

2015: Boston, MA

Professor Triantaphyllos Akylas, Meeting Chair
Massachusetts Institute of Technology

2016: Portland, OR

Professor Raul Cal, Meeting Chair
Portland State University

2017: Denver, CO

Professor Jean Hertzberg, Meeting Chair
University of Colorado, Boulder

Candidates for Vice-Chair (vote for one)



Ellen Longmire
University of Minnesota

Ellen Longmire is a Professor of Aerospace Engineering and Mechanics at the University of Minnesota. She received an A.B. (1982) in physics from Princeton University and M.S. (1985) and Ph.D. (1990) in mechanical engineering from Stanford University where she specialized in experimental fluid dynamics.

Prior to receiving her Ph.D., she studied fluid dynamics at TU Braunschweig on a DAAD Fellowship and worked as an engineer at Hauni-Werke Koerber & Co in Germany and at Honeywell and SAIC in the U.S. Since 1990, she has taught and directed research at the University of Minnesota. Her research interests have included single- and multi-phase turbulent flows, liquid-liquid flows with surface tension, microscale flows, biomedical flows, and development of experimental techniques. She received the NSF National Young Investigator Award and the University of Minnesota McKnight Land-Grant Professorship. In 2007, she was elected a Fellow of APS. She currently serves as an Associate Editor for Experiments in Fluids and Physics of Fluids. She was a member-at-large on the DFD Executive Committee from 2002-2005 and Secretary/Treasurer from 2006-2009. She is currently the DFD representative on the U.S. National Committee on Theoretical and Applied Mechanics, served previously on the Nominating, Frenkiel Award, and Acrivos Award Committees, and helped organize the 2009 DFD Meeting in Minneapolis.

Statement: As a longtime member of DFD, I am honored to be nominated as a candidate for Vice Chair. I have enjoyed attending the DFD meeting since I was a graduate student, in particular hearing about the latest results of leading researchers and communicating informally with colleagues. The size of the meeting has grown steadily to encompass an increasing breadth of topics so that the Division now ranks as the third largest within APS. Although the large meeting size brings logistical challenges, I fully support the concept of interaction across all areas of fluid dynamics that the DFD meeting provides, including interactions among disciplines and among an international set of researchers with diverse backgrounds. Further, I support the opportunities the meeting provides for students and younger researchers not only to participate and make scientific contributions but also to meet and learn from more senior researchers. As Vice Chair and a member of the Executive Committee, my goal would be to promote these interactions while working to ensure

the quality and success of future DFD meetings. Beyond ensuring a successful annual meeting and promoting recognition of our members through fellowships and awards, the Executive Committee leadership needs to continue its efforts to promote and advocate for the field of fluid dynamics. If elected, I would work together with the Executive Committee and our membership on communicating the relevance and importance of our research and educational efforts, extending across many fields and applications, to funding agencies, the press, and the public.



Martin Maxey
Brown University

Martin Maxey is Professor of Applied Mathematics and Engineering at Brown University. He completed his undergraduate and graduate education at the University of Cambridge and received his Ph.D. in Applied Mathematics and Theoretical Physics in 1979. In 1977, he was a pre-doctoral research fellow in the Geo-

physical Fluid Dynamics Summer Program at Woods Hole Oceanographic Institute. He held a post-doctoral position in the Department of Mechanics and Materials Science at the Johns Hopkins University and subsequently was a lecturer in the Department of Chemical Engineering at Johns Hopkins. He joined the Division of Applied Mathematics at Brown University in 1982. His research in fluid dynamics is focused on dispersed two-phase flows such as suspensions of solid particles in liquids and gases, using theoretical methods and numerical simulations. Recent research interests include shear flows of viscous suspensions, turbulent two-phase flows, self-assembled structures using magnetic or electric fields, active suspensions of micro-swimmers and bacteria. Martin is a longtime member of APS-DFD and has served in a number of administrative roles including the Corrsin Award Committee (2011-2012), Fluid Dynamics Prize Committee (2007-2008), Executive Committee (2006-2009), as well as the Frenkiel Award Committee and the Nominating Committee previously. He was elected a fellow of the American Physical Society in 2005. He is presently an editor of Fluid Dynamics Research (2011-2014), having served as an associated editor 2009-2010, and was a member of the editorial advisory board for the International Journal of Multiphase Flow, 1997-2010.

Statement: I am honored to be nominated for vice chair of the Executive Committee and would be very pleased to serve the APS-DFD community in this role. The Division is a leader as an important international forum for new research in fluid dynamics. While we attend other meetings with a specific research focus, the annual DFD meeting provides the opportunity to learn of new advances

over a broad range of emerging fluids research areas, meet many colleagues from the United States and overseas, and to present the latest work. I would work with the Committee to ensure that the annual meeting continues as a vibrant venue and to enhance the effectiveness of the meeting as we accommodate the growth of the Division. Much of the new research in biomedicine, biophysics and nanotechnology involves a multi-disciplinary approach. Increased DFD participation in the APS Spring Meeting provides a link to other researchers in these areas from other divisions and more broadly, an opportunity to highlight the role fluid dynamics has in physics today. Travel grants provided by the Division have helped numerous students and foreign scientists attend our meetings. DFD has essential functions too in developing education and outreach as well as promoting fluid dynamics research to the broader community so that they are aware of accomplishments and the benefits of sponsored research. While funding agencies encourage individual outreach efforts, the impact can be enhanced through the Division. These functions should continue to be developed and coordinated with similar efforts by APS as a whole. The Executive Committee further represents the interests of the Division within APS and promotes recognition of research accomplishments through the APS fellows, awards and prizes. I would work with other members of the Executive Committee in promoting these goals.

Candidates for Member-at-Large (vote for two)



Paul Linden
University of Cambridge

Paul Linden is the GI Taylor Professor of Fluid Mechanics in the Department of Applied Mathematics and Theoretical Physics, and Professorial Fellow of Downing College, University of Cambridge, and the Blasker Distinguished Professor Emeritus of Environmental Science and Engineering in the Department of

Mechanical and Aerospace Engineering at UC San Diego. He received his BSc in Mathematics from the University of Adelaide in 1968 and his PhD in Applied Mathematics from the University of Cambridge in 1972. Paul's research is concerned with fluid flow in the environment. In particular, he is interested in flow and turbulence in the oceans and atmosphere, the fluid dynamics of advanced, naturally ventilated buildings and in general issues of climate change and sustainability. He uses laboratory experiments and theory to elucidate the relevant physical processes underlying these flows and develops mathematical models based on experimental observations to provide

predictions of their properties. He was the Director of the Environment and Sustainability Initiative and the founding Director of the Sustainability Solutions Institute at UC San Diego. Currently he is the Director of the Cambridge Forum for Sustainability and the Environment. He is a Deputy Editor of the Journal of Fluid Mechanics and the Editor of JFM Rapids. He is a Fellow of the American Physical Society, the Royal Meteorological Society and the Royal Society. He previously served as a Member at Large for DFD from 2002-2004.

Statement: DFD has become an increasingly international organisation for fluid mechanics and the Annual Meeting is now regarded as the defining venue for the latest research in the subject. As a member of the Council for EUROMECH, and with active research collaborations in Mexico, Argentina and Canada, I see DFD playing a central role in the subject both with its neighbours in North, Central and Southern America, and also with Europe and other regions of the world. With my experience of academia in both the US and the UK, I will work to foster and strengthen these international links as a way of promoting excellence in fluid dynamics research world-wide. In particular, I view the role of APS in providing opportunities to bring early career scientists to the Annual Meeting and, more generally, facilitating the encouragement and support for the future leaders in the subject as a critical part of its mission. I am honoured by this nomination and, if elected, I will work to represent the membership in all aspects of the Division's activities.



Robert Moser
University of Texas at Austin

Robert Moser is the Deputy Director of the Institute for Computational Engineering and Sciences, Director of the Center for Predictive Engineering and Computational Sciences, the W. A. "Tex" Moncrief Chair of Computational Engineering and Sciences and Professor of Mechanical Engineering at the University of

Texas at Austin. He studied mechanical engineering at the Massachusetts Institute of Technology, where he received a B.S. degree in 1978, and at Stanford University where he earned a Ph.D. in 1984. Before coming to the University of Texas in 2005, Moser was a research scientist at the NASA-Ames Research Center (until 1995) where he worked in the Turbulence Physics Branch. He then joined the University of Illinois as a Professor of Theoretical and Applied Mechanics, and also directed the fluid dynamics group of the Center for Simulation of Advanced Rockets. His research is on the modeling and numerical simulation of turbulence and other complex fluid flow phenomena, which has included application to such diverse systems as hypersonic reentry vehicles,

solid propellant rockets, micro-air vehicles and the human cardiovascular system. He also is developing methods for validation and uncertainty quantification in fluid flow computations. Moser is a Fellow of the American Physical Society, and was awarded the NASA Medal for Exceptional Scientific Achievement. He is an active member of the Division of Fluid Dynamics and has served on the Executive Committee, the Frenkiel Award Selection Committee and the Fellowship Committee, and he co-organized (with Rich Lueptow and Hassan Nagib) the 58th Annual Meeting in Chicago.

Statement: It has been my pleasure and privilege to be part of the APS Division of Fluid Dynamics and to serve the community in small ways over the years. I am also honored to be considered for executive committee of the Division. As the premier society for the advancement of fluid dynamics, the Division and its leadership have important responsibilities to organize our annual meeting, recognize accomplishments through awards and prizes, and support and promote the membership. The Division also has an important role in communicating the interesting, exciting and important work that we do to the public and relevant government agencies. I would be pleased to help advance these goals as a member of the Executive Committee, if selected. We should continue and enhance our many successful activities and initiatives, while seeking new opportunities to support and promote the fluid dynamics community.



G. Paul Neitzel

Georgia Institute of Technology

G. Paul Neitzel has been a Professor of Fluid Mechanics in The George W. Woodruff School of Mechanical Engineering at the Georgia Institute of Technology since 1990; he presently also serves as Associate Chair for Graduate Studies. Prior to arriving at Georgia Tech, he served for eleven years on the faculty of the

Department of Mechanical and Aerospace Engineering at Arizona State University and worked ten years at the U.S. Army Ballistic Research Laboratory, during which time he received his Ph.D. in fluid mechanics from The Johns Hopkins University. He has conducted research on the hydrodynamic stability of unsteady swirling flows and flows associated with materials processing, vortex breakdown, suppression of coalescence/wetting, bioreactor fluid dynamics and droplet impact on inclined, planar surfaces. He is a Fellow of the American Physical Society and the American Society of Mechanical Engineers, an Associate Fellow of the American Institute of Aeronautics and Astronautics and the recipient of a National Science Foundation Presidential Young Investigator Award and an Alexander von Humboldt Fellowship. He has served

as a visiting professor at the Universität Karlsruhe, Imperial College of Science and Technology, and the Université d'Aix-Marseille II and a visiting scientist at Forschungszentrum Karlsruhe, now part of Karlsruhe Institute of Technology. He has served the Division of Fluid Dynamics as the chair of the organizing committee for the 1994 DFD meeting in Atlanta, as a member of the committee that organized the 1991 DFD meeting in Scottsdale, a member of the Otto Laporte Award selection committee and as member and chair of the selection committee for the Acrivis Dissertation Award. Prior to the dissolution of the microgravity fluid physics program at NASA, he served that agency (and the discipline) in many advisory capacities, including five years as chair of the fluid physics discipline working group.

Statement: The APS Division of Fluid Dynamics is the principal professional society for practitioners of our discipline in the sciences, engineering, and mathematics from around the world and its annual meeting is the best of its kind anywhere. We, as members of the APS DFD, must continue to promote our discipline as the essential, relevant, and modern subject that it is with far-reaching applications from the calculation and measurement of flow from a ruptured pipeline in the Gulf of Mexico or transport of radiation and debris from Fukushima to other parts of the world to the study of flow in micro/nano channels or transport within living tissues and cells. The growth in the Division's annual meeting, particularly among international participants, and the continuing evolution of topics discussed there are testimony to the ubiquity of fluid dynamics in our lives and the importance of the discipline to the solution of problems of technological and societal interest. I would be honored to serve the Division as a member of the Executive Committee and pledge to work tirelessly on behalf of our common interests.



Paul Steen

Cornell University

Paul Steen is a professor in the School of Chemical and Biomolecular Engineering at Cornell University, with field affiliations in Applied Mathematics, Theoretical and Applied Mechanics and Mechanical and Aerospace Engineering. He holds the Maxwell M. Upson Chair in Engineering. His expertise is in the

dynamical stability of fluid systems. A current focus is on deformable liquid/gas interfaces, including the dynamical shape-change of drops, bridges, beads and rivulets. Steen co-invented a switchable adhesion device wherein interfaces are purposely reconfigured via electro-osmotic pumping. He is also an expert in planar-flow spin casting, an application in which molten metals are rapidly

solidified into thin sheets, and wherein instability of the molten/gas interface can lead to undesirable reconfigurations that get frozen in the product. He is a fellow of the American Physical Society (1996). He served as an Associate Editor of the Journal of Fluid Mechanics from 2000-2011. Presently, he serves the APS/DFD as chair of the Corrsin Award Selection Committee. Previously, he has chaired the Fluid Dynamics Prize Selection Committee, the Acrivos Dissertation Award Committee, and has served as a member of the Nominations, Executive, Program, Publications and Frenkiel Award Committees. He has co-edited "A Gallery of Fluid Motion," a DFD project published by Cambridge University Press and has contributed a chapter to "Research Trends in Fluid Dynamics." He has delivered keynote talks at Gordon Conferences, APS, APS/DfD, AIChE and ACS meetings. He has coauthored more than 70 papers, has edited books and holds a number of patents and referees regularly for prominent journals. Prior to coming to Cornell, Steen received his PhD from The Johns Hopkins University in 1981 and held a post-doctoral position in Chemical Engineering at Stanford University, after having completed undergraduate degrees in Engineering and English Literature at Brown University. At Cornell, he has served as Director of Graduate Studies for Chemical Engineering. He was awarded the Alexander von Humboldt Fellowship, enabling visits to Karlsruhe and the Max Planck Institute in Goettingen, Germany. He has been a Senior Guest Scientist at the Forschungszentrum Karlsruhe and a Visiting Scientist with the Physics of Fluids group at the University of Twente, The Netherlands.

Statement: The DFD is a diverse and vibrant community whose centerpiece is the annual meeting. The health and welfare of this growing community stands as the primary responsibility of the Executive Committee. Our major challenges are running an effective annual meeting while accommodating its growth, promoting its member's accomplishments through prizes, awards and fellowships, and fostering outreach to K-12 students, the press, legislators, and to the lay public. We need increased visibility and appreciation of our community. We also face a rapidly evolving world of publications.

APS/DFD 2013-2014 Leadership & Contact Information

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

EXECUTIVE COMMITTEE

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(11/12 - 10/13)
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(11/12 - 10/13)
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(11/12 - 10/13)
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(11/12 - 10/13)
Brown Univ

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(11/10 - 10/13)
Purdue Univ

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(11/11 - 10/14)
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(11/11 - 10/14)
Univ of Twente

Member-at-Large:
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(11/12 - 10/15)
Univ of Illinois - Urbana

Member-at-Large:
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(11/12 - 10/15)
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COMMITTEES

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(12/14)

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(12/13)

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3-YEAR TERMS

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Wendy Zhang
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Andrew Belmonte
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Eric Lauga
(12/14)

Jonathan Posner
(12/15)

Lian-Ping Wang
(12/15)

FELLOWSHIP COMMITTEE
8 FELLOWS, STAGGERED
2-YEAR TERMS

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Vice Chair

Nadine Aubry
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Haecheon Choi
(12/13)

Geoff Spedding
(12/13)

Dan S. Henningson
(12/14)

Joseph C. Klewicki
(12/14)

Richard Lueptow
(12/14)

Kyle Squires
(12/14)

EXTERNAL AFFAIRS COMMITTEE
8 MEMBERS, STAGGERED
3-YEAR TERMS

Alexandra Techet
(12/13)
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(12/13)

Charles W. Henoach
(12/14)
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(12/14)

Lawrence Ukeiley
(12/14)

Jun Sakakibara
(12/15)

Anne Staples
(12/15)

Oleg V. Vasilyev
(12/15)

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

Neelesh A. Patankar
(12/13)
Chair

Henrik Alfredsson
(12/13)

Pirouz Kavehpour
(12/13)

John Brady
2012 Prize Recipient

Moshe Matalon
(12/14)
Vice Chair

Yukio Kaneda
(12/14)

Kathleen J. Stebe
(12/14)

John C. Wettlaufer
(12/14)

CORRSIN AWARD SELECTION COMMITTEE
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2-YEAR TERMS

Gretar Tryggvason
(12/13)
Chair

Mark N. Glauser
(12/13)

Roman Stocker
(12/13)

Z. Jane Wang
(12/13)

Daniel P. Lathrop
2012 Prize Recipient

Paul H. Steen
(12/14)
Vice Chair

Emily S. C. Ching
(12/14)

Sandip Ghosal
(12/14)

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

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(12/13)
Chair

Michael (Miki) Amitay
(12/13)

Jacob Cohen
(12/13)

Lisa Fauci
(12/13)

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(12/14)
Vice Chair

Alberto Aliseda
(12/14)

Prosenjit Bagchi
(12/14)

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

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(12/13)
Chair

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(12/13)

Helen L. Reed
(12/13)

Sharath S. Girimaji
(12/14)
Vice Chair

Malcolm J. Andrews
(12/14)

Howard A. Stone
(12/14)
AE from POF

Kendra V. Sharp
(12/14)

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

William W. Schultz
(12/13)
Chair

Rajat Mittal
(12/14)
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John O. Dabiri
(12/14)

David L. Hu
(12/14)

Ann Karagozian
(12/14)

Jeannette Yen
(12/14)

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

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(12/13)
Chair

Andrew Pollard
(12/13)

Patrick T. Underhill
(12/13)

Frank G. Jacobitz
(12/14)
Vice Chair

David R. Dowling
(12/14)

Rachel Pepper
(12/14)

DIVISION WEBSITE DEVELOPMENT OFFICER

Jeff Eldredge

GALLERY OF FLUID MOTION COORDINATOR

Ken Kiger