

65th Annual meeting of the Division of Fluid Dynamics

18 – 20 November 2012

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WELCOME

On behalf of the organizing committee, we welcome you to the 65th Annual Meeting of the APS Division of Fluid Dynamics. This year we have more than 2200 contributed papers, 150 Gallery of Fluid Motion entries, and 120 posters. We will have 32 parallel sessions over the three days of the meeting, which takes place on the Upper Level of the magnificent San Diego Convention Center. Each year the meeting continues to grow and we hope that this year will reflect the many successful meetings that have preceded San Diego.

We look forward to the presentation of four award lectures, and eight invited lectures, as well as mini-symposia and focus sessions. We are also pleased to welcome exhibitors and affiliated activities such as the APS Journal Editors, the Geophysical Fluid Dynamics program, the Resume Help Desk, the Reporter/Media Resource Table, and the Fluids Education Mini-Symposium.

This year's DFD Meeting launches the first Student Poster Competition. The poster session will be held prior to the Dinner 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 and will be highlighted in the DFD Newsletter. While the Poster Session of the DFD Meeting is open to all participants, the Poster Competition constitutes a specific opportunity for graduate and undergraduate students to enhance their presentation skills and to build their professional network.

We extend a special thanks to all who helped plan and execute this meeting. We recognize the contributions of faculty and students from UC San Diego, including the Dean of the Jacobs School of Engineering. Colleagues from San Diego State University and the University of San Diego are acknowledged for their participation.

Along with our colleagues on the Organizing Committee, we wish you a successful and productive meeting. We look forward to APS DFD 2013 in Pittsburgh!

Juan C. Lasheras
Conference Co-Chair

Sutanu Sarkar
Conference Co-Chair

65th Annual Meeting Committee

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Carlos Coimbra (UCSD)
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Eric Lauga (UCSD)
Alison Marsden (UCSD)
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Kal Seshadri (UCSD)
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Member-at-Large: [James Duncan](#) (11/10 - 10/12)

Member-at-Large: [Elisabeth Guazzelli](#) (11/09 - 10/12)

Member-at-Large: [Michael Plesniak](#) (11/10 - 10/13)

Member-at-Large: [Sanjiva Lele](#) (11/11 - 10/14)

Member-at-Large: [Detlef Lohse](#) (11/11 - 10/14)

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David Dowling (12/12)

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Charles Meneveau (12/13)

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Tom Corke (12/12) **Chair**

Julian Andrzej Domaradzki (12/12)

Elisabeth Guazzelli (12/12)

Pirouz Kavehpour (12/13)

Tony Maxworthy (12/12)

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Corrsin Award Selection Committee

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Martin Maxey (12/12) Chair
Philip Marcus (12/12)
Charles Meneveau (12/12)
Elaine Oran (12/12)
Roman Stocker (12/13)
Gretar Tryggvason (12/13) Vice Chair
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Acrivos Award Selection Committee

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Miki Amitay (12/13)
Jacob Cohen (12/13)
Lisa Fauci (12/13)
Jeffrey Jacobs (12/12)
Jonathan Rothstein (12/13), Vice Chair
John Torczynski (12/12)

Frenkiel Award Selection Committee

Triantaphyllos Akylas (12/12)
Ali Beskok (12/13) Vice Chair
Ken Christiansen (12/13)
Ching-Long Lin (12/12)
Helen Reed (12/13)
Michael Shelley (12/12) – AE from POF
P.-K. Yeung (12/12) Chair

Committee on Media & Science Relations

James Brasseur (12/12)
Anette (Peko) Hosoi (12/12) Chair
William Schultz (12/13) Vice Chair
Timothy Wei (12/12)
Rajat Mittal (12/14)

Committee on Educational & Career Outreach

Karen Flack, Vice Chair (12/12)
Jean Hertzberg Vice Chair (12/13)
Meredith Metzger (12/12)
Andrew Pollard (12/13)
Kathy Prestridge (12/12)
Patrick Underhill (12/13)

Division Website Development Officer

Jeff Eldredge

Gallery of Fluid Motion Coordinator -- Ken Kiger

DFD 2012 EVENTS

All events will be held at the San Diego Convention Center (SDCC), Upper Level, unless otherwise noted. The Sunday evening Dinner/Reception will be at the Sails Pavilion on the Upper Level.

Registration Desk Hours

Foyer Adjacent to Ballroom 20

Saturday, November 17 13:00 – 20:00

Sunday, November 18 07:00 – 17:00

Monday, November 19 07:30 – 17:00

Speaker Ready Room Hours

Room 21

Saturday, November 17 16:00 – 20:00

Sunday, November 18 07:00 – 17:00

Monday, November 19 07:00 – 17:00

Tuesday, November 20 07:00 – 12:00

DFD Executive Committee Meeting

Saturday, November 17 18:00

San Diego Marriott Marquis and Marina
Cardiff/Carlsbad Room, South Tower 3rd
Floor

Awards Ceremony

Sunday, November 18 10:00-11:50

Ballroom 20ABC

The DFD awards, prizes, and fellowships will be presented immediately after the first session on Sunday. Each year the DFD presents the Fluid Dynamics Prize, the Francois Frenkiel Award, the Stanley Corrsin Award, and the Andreas Acrivos Dissertaton Award.

Exhibits

Ballroom 20D

Sunday, November 18 07:30 – 18:00

Monday, November 19 08:30 – 17:00

Tuesday, November 20 08:30 – 12:00

The Exhibit Hall showcases products from industry, education, and government sponsors.

Invited Lectures

Invited lectures are scheduled Sunday, Monday, and Tuesday

Refreshments

Complimentary beverages and snacks will be served in the exhibit area and foyers during select morning and afternoon breaks.

Conference Dinner

Sunday, November 18, 19:00-21:00

Sails Pavilion

The dinner brings together attendees and guests in the beautiful and spacious Sails Pavilion on the Upper Level of the San Diego Convention Center. The reception/dinner 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 \$80 each.

Gallery of Fluid Motion

Sunday, November 18 – Tuesday,

November 20, 2012

Ballroom 20D

The 30th Annual Gallery of Fluid Motion consists of computational and experimental still images and videos submitted by attendees. A panel selects outstanding entries based on artistic value, scientific content, and originality. The winning entries will be displayed at the Annual APS Meeting in March 2013 and will appear in Physics of Fluids, September 2013. Award winning entries will be announced on Tuesday, November 20 during the morning coffee break.

DFD 2012 EVENTS

Posters

The number of poster research contributions to the Annual DFD Meeting has doubled in the past three years (from 27 posters in 2009 to 54 posters in 2011) and we have 120 this year. In order to better showcase this growing section, the 65th Annual DFD Meeting launches the first Student Poster Competition. The poster session will be held Sunday during a dedicated time slot from 17:50 to 18:50 prior to the Dinner 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 on Sunday evening 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 presentation skills and to build networks.

Resume Help Desk

November 18-20, 2012
Ballroom 20D

The second annual Resume/CV help desk will be held at Booth#114. To be guaranteed an appointment, please sign up any time at the booth for appointment times on Sunday 9:30-10 and 4:15-4:45, Monday 10-10:30 and Tuesday 10-10:30. Please bring a hard copy of your CV, if possible. Drop-ins are welcome, and if we are not busy we will help you out! This is a great chance to get an objective assessment of your CV from experienced faculty and scientists in your field.

Meet the APS Journal Editors

Monday, November 19, 16:30-18:00

Upper Level Foyer Adjacent to 27A

The Editors of the APS journals cordially invite you to join them for conversation and refreshments. Your questions, criticisms, compliments, and suggestions about the journals are welcome. We hope you will be able to join us.

Geophysical Fluid Dynamics Reception

Monday, November 19, 19:00-20:30

San Diego Marriott Marquis and Marina Hotel

The Dining Room at the Marina Kitchen Restaurant

An open reception for alumni and friends of the Geophysical Fluid Dynamics (GFD) The GFD program is an interdisciplinary summer program for graduate students that has been held since 1959 at the Woods Hole Oceanographic Institution. It has promoted the exchange of ideas relating to fluid mechanics among many fields, such as oceanography, meteorology, astrophysics, geology, planetary atmospheres, and applied mathematics. Over its 50 year history the GFD program has produced numerous alumni and touched many junior and senior scientists, and the purpose of the reception is to bring them together along with any other interested parties. Information on how to participate in the program will be provided.

APS/DFD Reporter and Media Resource

Monday, November 19 7:00-7:45 a.m.

Location 20D Workroom

Charles Blue, AIP

**Panel Session: Visual
Communication in Science**

Monday, November 19, 13:00 – 15:00

Room 29A

Professor Rajat Mittal, Johns Hopkins
University

**Editorial Board Meeting –
Journal of Fluid Mechanics**

Monday, November 19 18:00-19:30

Location 20D Workroom

Dr. Neil Hammond, STM Journals –
Cambridge University Press

**Instructions to Speakers, Session Chairs and Poster
Presenters**

1. Speakers should arrive at least 10 minutes prior to the start of the session and introduce themselves to the Session Chair.
2. A TV monitor in each room is used to time the sessions. Timing will be strictly enforced by the Session Chair.
3. Contributed papers are limited to 10 minutes with 2 additional minutes for discussion. This is followed by 1 minute for transition to the next paper and introduction of the next speaker. During the talk, the monitor will indicate at 8 minutes that the speaker has to finish in 2 minutes. At 10 minutes, it will indicate that the speaker's presentation time is over. At 12 minutes, it will indicate that transition to the next speaker must occur.
4. A minisymposium paper is 26 minutes long, including questions and transition. This makes a minisymposium paper twice as long as a regular contributed paper, allowing attendees to move between regular talks and minisymposia.
5. Minisymposium talks will be 20-22 minutes long with 3-5 minutes for discussion and 1 minute for transition. NOTE: the TV time monitor in each room will keep the regular 13 minute schedule.
6. The Fluid Dynamics and Stanley Corrsin lectures are 40 minutes with 5 additional minutes for discussion (total 45 minutes). Invited lectures are 30 minutes long with an additional 5 minutes for discussion (total 35 minutes). The Andreas Acrivos Dissertation Award Lecture and Francois Frenkiel Award lectures are 17 minutes with 3 additional minutes for discussion (total 20 minutes).
7. Each presentation room is equipped with a LCD projector **with standard VGA inputs only**, screen, podium and microphone. **If you need an adapter to hook your computer to a VGA projector, it is your responsibility to bring an appropriate such adapter."**
8. Each presentation room is equipped with a LCD projector, screen, podium and microphone. Speakers must provide their own laptop computer. Macintosh users should provide their own adaptor to connect their laptop to the projector. Speakers are responsible for procurement and cost of renting any additional AV equipment. Also note that the APS is not responsible for the security of any personal computers.
9. There is very little time to recover from AV malfunction should one occur. Please check for the following common reasons for malfunction before your presentation:

- * Meeting room projectors will have 1024 x 768 resolution. Please set your laptop resolution to these numbers or lower. Your images will not display properly if your laptop resolution is higher than the projector.
- * Set the power profile, monitor profile, and screensaver on your laptop to turn off the sleep/hibernate mode. Your laptop will usually revert to its default resolution if it goes into sleep/hibernate.
- * Animations and equations in PowerPoint are not necessarily compatible across different versions. If you load your presentation on to a different computer, please check that it displays correctly.
- * Show up ten minutes before the session starts.
- * Macintosh users should bring their own adaptor to connect their laptop to the projector.
- * A Speaker Ready Room staffed by technicians is available for your use. Please test your presentations and confirm your laptop settings in the Speaker Ready Room (Room 21) prior to your talk

INSTRUCTIONS TO SPEAKERS, SESSION CHAIRS AND POSTER PRESENTERS

Notes to Session Chairs:

1. Please be on time. Arrive in the presentation room at least 10 minutes prior to the session start time. Just before the session begins, briefly introduce yourself and explain the timing system to the audience.
2. Start the session on time. Announce the first abstract and author when the monitor timing system signals the beginning of the talk.
3. Strictly adhere to the timing signals. The purpose of the timing signals is to allow attendees to move from one session to another and to be able to rely on the exact time of each presentation as listed in the program. Speakers must be asked to stop when their allotted time is up.
4. Please check the Corrigenda and program agenda for your session. If a presentation has been withdrawn or should a speaker fail to appear, allow the preceding discussion to continue, or suspend the session until it is time for the next scheduled abstract. You may allow a speaker who misses his/her scheduled time to speak at the end of the session if time allows.

Internet Access

November 18-20, 2012

San Diego Convention Center

Wireless connectivity will be available for free on the Lower Level of the Convention Center. On the Upper Level, wireless connectivity is available in the Ballroom/Exhibit Hall (20D).

PRIZES AND AWARDS

Sunday, 18 November
Ballroom 20ABC

**Session B1: Welcome, Presentation of
Awards and DFD Fellowships**
10:00

Chair: Kenny Breuer, Brown University

2012 FLUID DYNAMICS PRIZE

Professor John Brady, California Institute of Technology, is the recipient of the 2012 Fluid Dynamics Prize which recognizes major contributions to fundamental fluid dynamics made during a career of outstanding work. The citation reads: "For his seminal contributions to the rheology of "complex fluids", for creating the Stokesian Dynamics technique for predicting the macroscopic properties of concentrated suspensions under shear, and for his services to Fluid Dynamics as Associate Editor and Editor, respectively, of two top journals."

**Session B100002: Fluid Dynamics
Prize Lecture**
10:25

2012 STANLEY CORRSIN AWARD

Professor Daniel Lathrop, University of Maryland, is the recipient of the Stanley Corrsin Award which is given to recognize and encourage a particularly influential contribution to fundamental fluid dynamics. The citation reads "For his striking observations of flow in a quantum fluid, including detection of counter-flow that confirmed the two-fluid picture of quantum fluid, observation and characterization of reconnections of quantized vortices, and the discovery of an inverse-cube tail in the velocity distribution of superfluid turbulence."

**Session B1.00003: Stanley Corrsin
Award Lecture**
11:10

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Tuesday, November 20 at 11:10
Ballroom 20A

2012 ANDREAS ACRIVOS DISSERTATION AWARD

Dr. William Durham, Oxford University
The thesis title is: Phytoplankton In Flow
Advisor: Professor Roman Stocker, MIT

Session P33: Andreas Acrivos Dissertation
Award Lecture
Session Chair: Shelley Anna, Carnegie
Mellon University

Tuesday, November 20 at 11:10 a.m.
Ballroom 20BC

2012 FRANCOIS FRENKIEL AWARD

Professor Thomas Cubaud, SUNY Stonybrook, is the recipient of the Francois Frenkiel award. The award is given in recognition of significant contributions to fluid mechanics that have been published in Physics of Fluids during the preceding year by young investigators.

Title: Folded micro-threads: Role of
viscosity and interfacial tension

Session P34: Francois Frenkiel Award
Lecture

Session Chair: P.K. Yeung, Georgia Tech

2012 DIVISION OF FLUID DYNAMICS FELLOWS

P. Alfredsson

Royal Institute of Technology, Stockholm, Sweden

> For the development of innovative, creative and rigorous experimental methods leading to seminal contributions to our understanding of instabilities, transitional and turbulent flows.

David Dowling

University of Michigan, Ann Arbor, MI

> For conduct and analysis of experiments on turbulent mixing and high-Reynolds number wall-bounded flows, and for contributions to fluids education.

Alfonso Gañán-Calvo

Universidad de Sevilla, Sevilla, Spain

> For novel insights, including experiments and theory, for molding fluid jets into micro jets using aerodynamic, hydrodynamic or electrical forces.

Ephraim Gutmark

University of Cincinnati, Cincinnati, Ohio

> For his pioneering contributions to the fundamental flow physics and the development of flow control methodologies to achieve quiet aircraft engines, clean, stable and efficient combustion, and innovative propulsion systems.

Dan Henningson

Royal Institute of Technology, Stockholm, Sweden

> For pioneering contributions to linear and nonlinear hydrodynamic stability and numerical simulations of transitional and turbulent flows, including in-depth understanding of receptivity, bypass transition, and feedback control of these flows.

Anette Hosoi

MIT Lincoln Laboratory, Cambridge, MA

> For innovative work in thin fluid films and in the study of nonlinear interactions between viscous fluids and deformable interfaces including shape, kinematic and rheological optimization in biological systems.

Petros Koumoutsakos

ETH, Zurich, Switzerland

> For pioneering contributions in the development of vortex methods, particle methods, and bio-inspired algorithms, and their insightful use to advance fundamental understanding of bluff body flows, biological flows, and nanofluidics.

Norman Lebovitz

University of Chicago, Chicago, IL

> For fundamental work on the fluid mechanics of rotating stars and self-gravitating masses, and for the development and use of mathematical methods applied to geophysical and astrophysical fluid dynamics.

Bernd Noack

University of Poitiers, Poitiers, France

> For pioneering contributions to closed-loop turbulence control using methods ranging from reduced-order modeling to numerical and experimental demonstrations.

Neelesh Patankar

Northwestern University, Evanston, IL

> For pioneering contributions to the understanding of superhydrophobicity, the development of computational methods for immersed bodies, and the numerical analysis of electro-osmotic flows.

2012 DIVISION OF FLUID DYNAMICS FELLOWS

Heinz Pitsch

RWTH, Aachen, Germany

> For groundbreaking contributions to the development of large-eddy simulations of turbulent combustion as well as their application to aircraft-engine, gas-turbine and reciprocating-engine combustion.

William Schultz

University of Michigan, Ann Arbor, MI

> For deep contributions to nonlinear water waves, die swell, fiber formation and fish swimming, using innovative asymptotic methods and numerical techniques in FEM, BIM and spectral representation.

Sigurdur Thoroddsen

King Abdullah University, Thuwal, Saudi Arabia

> For the development and use of high-speed imaging to understand small-scale multiphase and interfacial flows, and therefore bubbles and drops, breakup and coalescence, cavitation, splashes and other free surface flows.

Oleg Vasilyey

University of Colorado, Boulder, CO

> For pioneering work on adaptive wavelet methods for CFD, fundamental contributions to Adaptive LES and explicit filtering in LES, and development of volume penalization methods for compressible flows.

Minami Yoda

Georgia Institute of Technology, Atlanta, GA

> For outstanding contributions to experimental fluid dynamics and optical diagnostics and, specifically, for innovative contributions to the development of evanescent-wave illumination techniques to study flows in near-wall regions.

INVITED LECTURES

Sunday, November 18

Invited Session C33

13:30, Ballroom 20A

Chair: Eric Lauga, UC San Diego
Raymond Goldstein, University of
Cambridge UK
Synchronization of Eukaryotic Flagella

Invited Session C34

13:30, Ballroom 20BC

Chair: Juan C. del Álamo, UC San Diego
Javier Jiménez, Universidad Politécnica
Madrid
The logarithmic layer of wall-bounded
turbulent flows

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Monday, November 19

Invited Session J33

14:00, Ballroom 20A

Chair: Sutanu Sarkar, UC San Diego
Ugo Piomelli, Queen's University
Kingston Canada
Boundary layers in favourable pressure
gradients

Invited Session K33

14:40, Ballroom 20A

Chair: Juan Lasheras, UC San Diego
Eckart Meiburg, UC Santa Barbara
Numerical Investigations of Turbidity
Current

Invited Session J34

14:00, Ballroom 20BC

Chair: Tom Bewley, UC San Diego
Peter Schmid, LadHyX Ecole
Polytechnique
Control of oscillator and amplifier flows

Invited Session K 34

14:40, Ballroom 20BC

Chair: Geno Pawlak, UC San Diego
Shelley Anna, Carnegie Mellon
University
Tipstreaming and other methods of
producing fine fluid threads

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Tuesday, November 20

Invited Session N33

10:30, Ballroom 20A

Chair: Craig Winters, UC San Diego
Stephen Monismith, Stanford University
Waves and wave-driven flow on a coral
reef

Invited Session N34

10:30, Ballroom 20BC

Chair: Stefan Llewellyn Smith, UC San
Diego
Alison Marsden, UC San Diego
Simulation-based planning of surgical
interventions in pediatric cardiology

MINISYMPOSIA

Sunday, November 18

Minisymposium Session A19

08:00-9:44 Room 28E

High-Speed, High-Energy, Multi-material Flows

Chair: Gustaaf Jacobs, San Diego State University

Minisymposium Session H33

10:30-12:27, Room 29A

Complex fluid flows II

In memory of Daniel D. Joseph

Chair: Howard Hu, University of Pennsylvania

Minisymposium Session G33

8:00-10:10, Room 29A

Complex fluid flows I

In memory of Daniel D. Joseph

Chair: Howard Hu, University of Pennsylvania

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FOCUS SESSIONS

Sunday November 18

This year's program includes Focus Sessions in "Interfacial Energy in Thermal Fluids" and "Vortex Dynamics in Fluid-Structure Interactions."

Session A31

8:00-9:44, Room 33B

Interfacial Energy in Thermal Fluids – I

Chair: Neelesh Patankar, Northwestern University

Session D32

14:15-16:25, Room 33C

Vortex Dynamics in Fluid-Structure Interactions – II

Chair: Darren Crowdy, Imperial College

Session E31

16:45-17:50, Room 33B

Interfacial Energy in Thermal Fluids – II

Chair: Kripa Varanasi, MIT

Session E32

16:45-17:50, Room 33C

Vortex Dynamics in Fluid-Structures Interactions – III

Chair: Silas Alben, University of Michigan

Session A32

8:00-9:31, Room 33C

Vortex Dynamics in Fluid-Structure Interactions – I

Chair: Stefan Llewellyn Smith, UC San Diego

GALLERY OF FLUID MOTION

November 18-20, 2012
Exhibit Hall (Room 20D)

The 30th Annual Gallery of Fluid Motion consists of computational and experimental still images and videos submitted by attendees. A panel selects outstanding entries based on artistic value, scientific content, and originality. The winning entries will be displayed at the Annual APS Meeting in March 2013 and will appear in *Physics of Fluids*, September 2013.

POSTERS

1. Please place your poster in the section marked "Gallery of Fluid Motion."
2. Boards will be in place and numbered by 16:00 on Saturday, November 17, 2012.
3. Entries may be put up between 16:00 and 20:00 on Saturday or between 7:00 and 9:00 on Sunday, November 18.
4. Entries are to be mounted in the numbered space that has been reserved for it. Refer to the listing below for assigned number.
5. Velcro and pushpins will be provided. Presenters must bring any other supplies needed to mount their posters to the boards.
6. Poster boards (approx. $\frac{1}{2}$ of an 8'x4' poster boards for each entry = 45" x 45") will be available for mounting.
7. Presenters must dismantle their posters by 11:00 on Tuesday. After that they will be discarded.

P01. Visualization of Shock Patterns During Tunnel Start up Transient. Shashi B. Verma, Manisankar, C. (NAL Bangalore).

P02. Coherent structures in the transition of spatially developing pipe flow. Xiaohua Wu (Royal Military College of Canada), Parviz Moin (Stanford University), Ronald J. Adrian, Jon Baltzer (Arizona State University), Jean-Pierre Hickey (Royal Military College of Canada)

P03. Streamlines Over Chicago. Roger Lee, Kyle Lueptow (Northwestern University)

P04. Two-phase sediment cloud. Bing Zhao (CEE, NTU, Singapore), Adrian C.H. Lai (CENSAM, SMART, Singapore), Adrian W. K. Law (CEE, NTU, Singapore), Eric E. Adams (CEE, MIT)

POSTERS

P05. Carbon 12, Art & Climate change: Planet Laboratory installation.

Helen Evans, Heiko Hansen, Jean-Marc Chomaz, Antonine Garcia (LadHyX, CNRS-Ecole Polytechnique)

P06. Stratification in modulated heap flow.

Yi Fan, David McDonald, Paul Umbanhowar, Julio Ottino, Richard M Lueptow (Northwestern University).

P07. Fine-Scale Mixing in Turbulent Shear Flows.

Jens Henrik Goebbert, Michael Gauding, Fabian Hennig, Norbert Peters (RWTH Aachen University).

P08. The birth of a detonation wave.

Rohit Bhattacharjee, Logan Maley, Matei Radulescu (University of Ottawa)

P09. Dynamics of Elasto-Inertial Turbulence.

Yves Dubief (University of Vermont), Vincent Terrapon (University of Liege), Julio Soria (Monash University).

P10. The Jumbling Jet In Crossflow.

Mirko Gamba (University of Michigan), M. Godfrey Mungal (Santa Clara University, Stanford University), Ronald K. Hanson (Stanford University)

P11. The spreading of a hydrosoluble surfactant on water.

Matthieu Roche (MAE, Princeton University), Zhenzhen Li (MMN, ESPCI, Paris, France), Ian M. Griffiths (OCCAM, Oxford University, Oxford UK), Arnaud St Jalmes (IPR Universite Rennes,

France), Howard A. Stone (MAE, Princeton University).

P12. Visualizing Whole Genome Sequencing : Microfluidics on a Massive Scale.

Bill Peck, Mark Fuller, Anthony Delacruz, Sarah Van Kuelen, Elodie Nguyen (Complete Genomics)

P13. The Mixing of Distant Sources.

Mihkel Kree (Aix Marseille University, France), Jerome Duplat (Universite Joseph Fourier, France), Emmanuel Villiermaux (Aix Marseille University, France).

P14. Beads-on-a-string.

Changxue Xue, Nicole Coutris, Yong Huang, (Clemson University)

P15. Viscoelastic fountain on a tubeless straw.

Salima Rafai (CNRS-University of Grenoble), Patrice Ballet (University of Grenoble), Thomas Podgorski (CNRS-University of Grenoble).

P16. Squeezing blood cells.

Badr Kaoui, Timm Kruger ,Stefan Frijters (Eindhoven University of Technology).

P17. Microdroplets & Nanoparticles.

Badr Kaoui, Stefan Frijters, Florian Gunther, Jens Harting (Eindhoven University of Technology).

P18. Feeding flow dynamics of developing zebrafish larvae

Chia-Yuan Chen (National Taiwan University of Science and Technology, Taiwan), Brian Y. Chang (Carnegie Mellon University), Roi Holzman (The Inter-University institute for Marine Sciences, Israel), Kerem Pekkan (Carnegie Mellon University)

POSTERS

P19. Absolutely iso-surface of vorticity and velocity vectors around a normal hovering fruitfly at six consecutive instances.

Wu Di, Yeo Khoo Seng, Lim Tee Tai (National University of Singapore).

P20. Formation of Biofilm Streamers in a Porous Microfluidic Device under Different Hydrodynamical Conditions.

Amin Valiei (University of Alberta, Edmonton, AB, Canada), Aloke Kumar (Oak Ridge National Laboratory, TN, USA), Partha P. Mukherjee (Texas A & M University, College Station, TX, USA), Yang Liu (University of Alberta, Edmonton, AB, Canada), Thomas Thundat (University of Alberta, Edmonton, AB, Canada).

P21. Integrated Analysis of Cicada Freely Forward Flight.

Haibo Dong (University of Virginia), Kuo Gai, Hui Wan (Wright State University), Yan Ren (University of Virginia).

P22. Hydrodynamics based bio-inspired surfaces for preventing microbial adhesion.

Aloke Kumar, David Karig, Rajesh Acharya, (Biosciences Division, Oak Ridge National Laboratory, TN), Partha Mukherjee (Department of Mechanical Engg, Texas A & M University), Scott Retterer (Biosciences Division, Oak Ridge National Laboratory, TN), Mitchel Doktycz (Biosciences Division, Oak Ridge National Laboratory, TN).

P23. Causing a stir: Cilia-driven flow landscapes on a coral surface.

Orr Shapiro (MIT, Weizmann Institute of Science), Vicente Fernandez, Melissa Garren, Theresa Santiano-McHatton (MIT), Assaf Vardi (Weizmann Institute of Science), Roman Stocker (MIT).

P24. The Great Navier-Stokes Snowball Fight.

Jules Soto, Evan Variano (UC Berkeley).

P25. Splatter Patterns.

Said Shakerin, Melissa M. Sweet (University of the Pacific).

P26. Bubbles, Drops, Streams: A Flow Visualization Device for Informal Science Education.

Said Shakerin (University of the Pacific).

P27. Rotating Water Sheet.

Said Shakerin, Jonhathan J. Sweet (University of the Pacific).

P28. Water Flowers.

Said Shakerin, Melissa M. Sweet (University of the Pacific).

P29. [WITHDRAWN]

P30. Pearling of sneezes.

Lydia Bourouiba, Barry E. Scharfman, Alexandra H. Techet (MIT).

P31. Clapping Wet Hands.

Brian Chang (Virginia Tech), Brice Slama (Ecole Polytechnique), Sunghwan Jung (Virginia Tech).

P32. Explosive Boiling.

M. van Limbeek, H. Lhuissier, C. Sun, A. Prosperetti, D. Lohse (POF - University of Twente).

P33. A Rising Bubble Ring.

T. T. Lim (National University of Singapore), M. Cheng, J. Lou (Institute of High Performance Computing, Singapore), C.T. Toh (National University of Singapore)

POSTERS

P34. Particle breaching or bouncing on fluid interface.

Alex Kotsch (Virginia Tech),
Sungyon Lee (UCLA), Sunghwan Jung (Virginia Tech),

P35. Bubble cavitating inside liquid fountain of beads upon ultrasonic atomization.

Kazuma Fujita, Katsumi Tsuchiya (Doshisha University).

P36. Water (white) rinsing 0.7% 15M PAM (blue).

Travis Walker, Armen Mekhdjian, Theresa Hsu, Gerald Fuller (Stanford University).

P37. Fluid Dynamics at Gas Evolving Electrodes: From Bubbles to Gas Film Formation.

Zahra Ghorbani, Rolf Wuthrich, Marius Paraschivoiu, Hoi Dick Ng (Concordia University, Montreal, Canada).

P38. A new angle on water entry.

Tadd Truscott, Kyle Bodily, Zhao Pan, Ken Langley (BYU).

P39. Surface tension of a soap film with non-circular disruption.

Md Rajib Anwar, Bin Hu, Sarah Kieweg, Zouhair Talbi, Thora Whitmore (University of Kansas)

P40. The sphere uprising.

Tadd Truscott, Randy Munns, Eric Hardester, Jonathon Pendlebury (BYU).

P41. Impact Dynamics of Binary Droplet Collision.

Xiaodong Chen, Vigor Yang (Georgia Institute of Technology).

P42. Patterns of thermomagnetic convection: thermomagnetic rolls, waves and cells.

Alexandra A. Bozhko, Gennady F. Putin, Alexandr S. Sidorov (Perm State National Research University, Russia), Sergey A. Suslov (Swinburne University of Technology, Australia).

P43. Stretched Coiling Instability.

Kyle J Lueptow (Evanston Township HS), Richard M Lueptow (Northwestern University).

P44. A star-shaped wave.

Jean Rajchenbach, Didier Clamond, Alphonse Leroux (LPMC, CNRS, Universite de Nice, France)

P45. Forebody Vortex Control through Plasma Actuation.

John Farnsworth, Zachary Francis, Reid Witt, Chris Porter, Thomas McLaughlin (US Air Force Academy).

P46. Crosswaves induced by the vertical oscillation of a fully immersed linear disturbance.

Frederic Moisy (Universite Paris-Sud), Guy-Jean Michon (UPMC), Marc Rabaud (Universite Paris-Sud), Eric Sultan (UPMC)

P47. The Wake of a Forced Oscillating Flexible Cylinder.

Zafar Bangash, Francisco J. Huera-Huarte (Universitat Rovira Virgili).

P48. Vorticity in the wake of an oscillating foil.

Rafael Fernandez-Prats, Francisco J. Huera-Huarte (Universitat Rovira Virgili).

P49. Dynamics of Perturbed Vortex Pairs Impinging on a Boundary

Daniel Asselin, Charles Williamson (Cornell University).

POSTERS

P50. Wind turbine wakes.

Stephane Backaert (Universite catholique de Louvain), Stefan Kern, Thierry Maeder (GE Global Research), Philippe Chatelain (Universite catholique de Louvain).

P51. Tornado in a Tank.

Mohamed Fayed, Hamid Ait Abderrahmane, Georgios H. Vatistas, Hoi Dick Ng (Concordia University, Montreal, Canada).

P52. Plethora of Vortices in the wake of a Dual Step Cylinder.

Chris Morton, Serhiy Yarusevych (University of Waterloo).

P53. Vortices During Electrocoalescence.

Brad Hamlin, William Ristenpart (UC Davis).

P54. Vortex Ring Generated by an Impulsively Started Circular Disk.

Laibing Jia, Li Lu, Anqing Xuan, Haijun Wu, Xin Xu, Xiezhen Yin (USTC, Hefei, Anhui, China).

P55. Leading edge vortices of flow over a delta wing.

Sebastian Eichelbaum, Jens Kasten, Mario Hlawitschka, Gerik Scheuermann (University of Leipzig, Germany), Bernd R. Noack (Institute PPRIME, France).

P56. Knotted and Unknotted Vortices.

Dustin Kleckner, Martin Scheeler, William T. M. Irvine (University of Chicago).

P57. Seeing the invisible - air vortices around a splashing drop.

Irmgard Bischofberger, Kelly Mauser, Sidney Nagel (The University of Chicago).

P58. Vortex Structure of a 2D Plunging Plate.

Azar Eslam Panah, James H. Buchholz (University of Iowa).

P59. Pancake vortices formed by a plume trapped in sharp stratification.

Michael Baker, Roberto Camassa, Claudia Falcon, Rich McLaughlin, Johnny Reis, Chung-Nan Tzou, Jeremy Ward, Brian White (UNC).

GALLERY OF FLUID MOTION – VIDEOS

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|---|--|
| <p>V01. Stirring faces: mixing in a quiescent fluid.
Steven L. Brunton, Clarence W. Rowley (Princeton University).</p> <p>V02. Boundary layer evolution in turbulent Rayleigh-Benard convection.
Herwig Zilken (Research Centre Juelich, Germany), Mohammad S. Emran, Joerg Schumacher (Ilmenau University of Technology, Germany).</p> <p>V03. Jets from Hollows.
Thomas Seon, Arnaud Antkowiak (Institut d'Alembert, UPMC & CNRS, Jussieu, Paris).</p> <p>V04. Startup of free and forced horizontal convection in an enclosure with mechanical and thermal forcing.
Gregory J. Sheard, Kean Y. Wong (Monash University, Australia), Martin P. King (Bjerknes Centre for Climate Research, Norway).</p> <p>V05. Boundary layers in turbulent Rayleigh-Benard convection.
Christian Resagk, Johannes Rilk, Michael Schoepf, Andre Thess (Ilmenau University of Technology).</p> <p>V06. Grain size effect on the behaviour of sediment clouds
Bing Zhao (School of Civil and Environmental Engineering, Nanyang Techn.), Adrian C. H. Lai, (Center for Environmental Sensing and Modeling, Singapore-MIT), Adrian W. K. Law (School of Civil and Environmental Engineering, Nanyang Techn.), Eric E. Adams (Department of Civil and Environmental Engineering, Mass.).</p> | <p>V07. Granular Impact: Acoustics and Fluctuations
Abe Clark, R.P. Behringer (Duke University).</p> <p>V08. Bi-disperse particle-laden flows in the Stokes regime
Gilberto Urdaneta (UCLA), Saro Meguerdijian (USC), Kali Allison (Harvey Mudd), Thomas Crawford (University of Cambridge), Wylie Rosenthal (Harvey Mudd), Sungyon Lee (UCLA), Andrea L Bertozzi (UCLA).</p> <p>V09. Indirect detonation initiation using acoustic timescale thermal power deposition
David R. Kassoy (University of Colorado. Boulder).</p> <p>V10. Domestic Catastrophe n3: Planet laboratory
Helen Evans, Heiko Hansen (HeHe), Jean-Marc Chomaz, Antoine Garcia (LadHyX, CNRS-Ecole Polytechnique).</p> <p>V11. Dynamics of unconfined spherical flames
Louis Leblanc, Lacy Caron (University of Ottawa), Zhe (Rita) Liang (Atomic Energy Canada Limited), Matei I. Radulescu (University of Ottawa).</p> <p>V12. The 3D structure of turbulent channels at $Re_{\tau}=4000$
Adrian Lozano-Duran, Javier Jimenez (Universidad Politecnica de Madrid).</p> <p>V13. The turbulent / non turbulent interface in boundary layers
Guillem Borrell, Juan A. Sillero, Javier Jimenez (Universidad Politecnica de Madrid).</p> |
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VIDEOS

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| <p>V14. Flow visualisation of spatially developing turbulent boundary layer along a flat plate
JungHoon Lee, YongSeok Kwon, Nicholas Hutchins, Jason Monty (The University of Melbourne, Victoria, 3010, Australia).</p> <p>V15. Leidenfrost explosion
F. Moreau (University of Liege), P. Colinet (University of Bruxelles), S. Dorbolo (University of Liege).</p> <p>V16. Discrete tones around airfoils
Miguel Fosas de Pando, Peter J. Schmid (LadHyX, CNRS-Ecole Polytechnique), Denis Sipp (DAFE, ONERA Meudon).</p> <p>V17. Prediction of supersonic jet noise using large-eddy simulation: effects of chevrons
Joseph W. Nichols, Sanjiva K. Lele (Center for Turbulence Research, Stanford University), Frank E. Ham (Cascade Technologies, Inc., Palo Alto, CA), James E. Bridges (Acoustics Branch, NASA Glenn Research Center, Cleveland, OH).</p> <p>V18. Particle-laden currents interacting with complex bottom topography: a numerical investigation
Mohamad Nasr-Azadani, Eckart Meiburg (UC Santa Barbara).</p> <p>V19. Clustering Dynamics of Droplets in Turbulence
Humberto Bocanegra Evans, Nico Dam, Willem van de Water (Mechanical Eng. Faculty, Eindhoven University of Technology).</p> <p>V20. High-speed imaging of aerodynamically driven instabilities in annular liquid sheets with axial co-flow</p> | <p>V21. Stability of Capillary Surfaces Supported by a Helical Wire
Jorge A. Bernate (Stanford University), David B. Thiessen (Washington State University).</p> <p>V22. Vorticity and capillaries at the surface of a jet
Matthieu A. Andre, Philippe M. Bardet (The George Washington University).</p> <p>V23. Slow Motion of Free Vortex Formation
Ahmad Falahatpisheh, Arash Kheradvar (Mechanical Eng. Dept., University of California, Irvine).</p> <p>V24. Kelvin-Helmholtz and Buckling Instabilities for a Viscoelastic Liquid
Bavand Keshavarz, Gareth H McKinley (?).</p> <p>V25. Vortex Merger of Long Filaments
Akshay Khandekar, Jamey Jacob (Oklahoma State University).</p> <p>V26. Vortex Shedding in the Wake of a Dual Step Cylinder
Chris Morton, Serhiy Yarusevych (University of Waterloo).</p> <p>V27. Vortices within vortices: hierarchical nature of vortex tubes in turbulence
Kai Buerger, Marc Treib, Ruediger Westermann (Technische Universitaet Muenchen), Suzanne Werner, Cristian C Lalescu, Alexander Szalay, Charles Meneveau, Gregory L Eyink (The Johns Hopkins University).</p> <p>V28. Is it shedding?
Jeffrey Young, Maria-Isabel Carnasciali (University of New Haven), Mike Kandis (Pioneer Aerospace)</p> |
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VIDEOS

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| <p>V29. Visualization of Kelvin waves on quantum vortices
 Enrico Fonda, David P. Meichle (University of Maryland), Nicholas T. Ouellette (Yale University), Daniel P. Lathrop (University of Maryland)</p> <p>V30. Fast, large amplitude vibrations of compliant cylindrical shells carrying a fluid
 Pawel Zimoch, Elliott Tixier, Julia Hsu, Amos Winter, Anette Hosoi (Massachusetts Institute of Technology)</p> <p>V31. Spontaneous Formation of Columnar Vortices
 Jared P. Whitehead, Beth A. Wingate (Los Alamos National Laboratory)</p> <p>V32. A butterfly effect: The structure of the elliptic flow instability
 Sharath Girimaji (TAMU, College Station, Texas)</p> <p>V33. Interfacial Instabilities in Torsional Flows
 Y.-T. Sun, Y.-Y. Chen (Dept. of Physics, Nat'l Taiwan University), P. Arratia (Dept. of Mechanical Engineering, University of Pennsylvania), J.-C. Tsai (Inst. of Physics, Academia Sinica, Taipei, Taiwan)</p> <p>V34. High-Speed Acquisition of Free Vortex Formation
 Ahmad Falahatpisheh, Arash Kheradvar (Mechanical Eng. Dept., University of California, Irvine)</p> <p>V35. Jumping Droplets
 Shahriar Afkhami, Lou Kondic (NJIT)</p> <p>V36. Spontaneous Capillarity-Driven Droplet Ejection
 Andrew Wollman (Portland State University), Trevor Snyder (Xerox Inc.), Donald Pettit (NASA,</p> | <p>Johnson Space Center), Mark Weislogel (Portland State University)</p> <p>V37. Droplets bouncing over a vibrating fluid layer
 Pablo Cabrera, Roberto Zenit (Universidad Nacional Autonoma de Mexico)</p> <p>V38. Unwrapping Chains
 A. D. Cambou, B. D. Gamari (University of Massachusetts, Amherst), E. Hamm (Universidad de Santiago de Chile), J. A. Hanna, N. Menon, C. D. Santangelo, L. Walsh (University of Massachusetts, Amherst)</p> <p>V39. Enhancing acoustic cavitation
 Bram Verhaagen, Oscar R. Enriquez Paz Y Puente, Michel Versluis (University of Twente), Andrea Prosperetti (Johns Hopkins University and University of Twente), Detlef Lohse, Han Gardeniers (University of Twente).</p> <p>V40. Film Boiling
 Sander Wildeman, Henri Lhuissier, Chao Sun, Detlef Lohse (University of Twente)</p> <p>V41. Simulation of a Small Planing Vessel in Short-crested Seas
 Thomas T. O'Shea, Kyle A. Brucker, Douglas G. Dommermuth (SAIC), Randall Hand, Paul Adams, Richard Walters, Kevin George, Mike Stephens (UDACC).</p> <p>V42. Numerical Simulation of a Seaway with Breaking
 Douglas G. Dommermuth, Thomas T. O'Shea, Kyle A. Brucker, Donald C. Wyatt (SAIC), Randall Hand, Paul Adams, , Richard Walters, Kevin George, Mike Stephens (UDACC).</p> |
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VIDEOS

- V43. Around the cusp singularity and the breaking of waves**
Tejerina-Risso J., Le Gal P. (IMERA, Aix-Marseille Univ.)
- V44. Effect of bubble deformability on vertical channel bubbly flow**
Sadegh Dabiri (University of Notre Dame), Jiakai Lu (Worcester Polytechnic Institute), Gretar Tryggvason (University of Notre Dame).
- V45. Freezing Drops with Powders**
Ying Zhu, Ivan Vakarelski, Sigurdur Thoroddsen (KAUST).
- V46. Siquieros accidental painting technique: a fluid dynamics point of view**
Sandra Zetina, Roberto Zenit (Universidad Nacional Autonoma de Mexico).
- V47. Flow Visualization inside a Ranque-Hilsch Tube**
David Porta Zepeda, Carlos Echeverria Arjonilla, Catalina Stern Forgach (Universidad Nacional Autonoma de Mexico).
- V48. Water-Oil Drainage Dynamics in Oil-Wet Random Microfluidic Porous Media Analogs**
Wei Xu (Petroleum Engineering, Colorado School of Mines), Jeong Tae Ok, Keith Neeves (Chemical Engineering, Colorado School of Mines).
- V49. Surface Explosion Cavities**
Adrien Benusiglio (Ladhyx, Ecole Polytechnique), David Quéré (PMMH, ESPCI), Christophe Clanet (Ladhyx, Ecole Polytechnique).
- V50. Evaporation in Motion**
H. Machrafi (Universite de Liege), A. Rednikov, P. Colinet (Universite Libre de Bruxelles), P.C. Dauby (Universite de Liege).
- V51. Droplet break-up with negative momentum**
Laurent Tanguy (University of Freiburg), Dong Liang (HSG-IMIT), Roland Zengerle, Peter Koltay (University of Freiburg).
- V52. Viscous Drops Impacting Water**
Travis Walker, Alison Logia, Gerald Fuller (Stanford University).
- V53. Catastrophic cracking courtesy of quiescent cavitation**
Tadd Truscott, Ken Langley, Jesse Daily, Scott Thomson (BYU).
- V54. Self healing soap films**
Taylor Killian, Jordan Huey, Joshua Bryson, Tadd Truscott (BYU).
- V55. Shear-Induced Droplet Breakup and Subsequent Coalescence of the Daughter Droplets**
Orest Shardt, Alexandra Komrakova, J.J. Derksen, Sushanta K. Mitra (University of Alberta).
- V56. Bubble chandeliers**
Sigurdur Thoroddsen, Marie-Jean Thoraval (KAUST, Saudi Arabia), Kohsei Takehara, T. Goji Etoh (Kinki University, Japan).
- V57. Bubble rings entrapments**
Marie-Jean Thoraval, Sigurdur Thoroddsen (KAUST, Saudi Arabia), Kohsei Takehara, T. Goji Etoh (Kinki University, Japan).
- V58. On-orbit experiment on liquid bridge pinch off under thermocapillary effect in Japan Experiment Module 'Kibo' aboard the ISS.**
Ichiro Ueno (Tokyo University of Science), Koichi Nishino (Yokohama National University), Mitsuru Ohnishi (Japan Aerospace Exploration Agency), Hiroshi Kawamura (Tokyo University of Science, Suwa), Masato Sakurai, Satoshi Matsumoto (Japan Aerospace Exploration Agency).

VIDEOS

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| <p>V59. Emptying a bottle.
Seungho Kim (Seoul National University), L. Mahadevan (Harvard University), Ho-Young Kim (Seoul National University),</p> <p>V60. Dye Visualization of a Vanishing Hollow Foil.
Stephanie Steele (MIT), Jason Dahl (University of Rhode Island), Gabriel Weymouth (Singapore-MIT Alliance for Research and Technology), Michael Triantafyllou (MIT)</p> <p>V61. 3D Shock-Bubble Interactions.
Babak Hejazialhosseini, Diego Rossinelli, Christian Conti, Petros Koumoutsakos (CSE Lab – ETHZ).</p> <p>V62. When a water drop freezes before it solidifies.
Faryar Tavakoli, Alen Sarkissians, Pirouz Kavehpour (UCLA).</p> <p>V63. Mass Transfer In Bubbly Flow Using a Subscale Description.
Bahman Aboulhasanzadeh, Gretar Tryggvason (University of Notre Dame).</p> <p>V64. Impinging Jet Dynamics.
Xiaodong Chen, Vigor Yang (Georgia Tech).</p> <p>V65. Newtonian and Non-Newtonian Droplet Collision.
Xiaodong Chen, Vigor Yang (Georgia Tech).</p> <p>V66. The short life of a droplet.
Guillermo Hernández-Cruz (Centro de Investigación en Energía UNAM), Minerva Gpe. Vargas (Instituto Tecnológico de Zacatepec), J. Arturo Pimentel (Instituto de Biotecnología UNAM), Heberto Perez (Centro de Investigación en Energía UNAM), Gabriel Corkidi (Instituto de Biotecnología UNAM),</p> | <p>V67. Shedding droplets during condensation.
Eduardo Ramos (Centro de Investigación en Energía UNAM)</p> <p>V68. The evolution of aortic valve vortices
Adam T. Paxson, Rajeev Dhiman, J. David Smith, Kripa K. Varanasi (MIT).</p> <p>V69. Do proximate, C. elegans swimmers synchronize their gait?
J. Yuan, K. Lee, D. M. Raizen, H. H. Bau (University of Pennsylvania)</p> <p>V70. Electron Beam Artifacts in Liquid-Cell Electron Microscopy.
J. Grogan (University of Pennsylvania), F. Ross (IBM, T. J. Watson Research Center), H. H. Bau (University of Pennsylvania)</p> <p>V71. Steady, accelerating, and turning locomotion of Paramecia.
Saikat Jana, Matthew Giarra, Pavlos Vlachos, Sunghwan Jung (Virginia Tech)</p> <p>V72. Meandering rivulets.
Stephanie Couvreur, Adrian Daerr (Université Paris Diderot)</p> <p>V73. Myco-fluidics: nuclear mixing in a growing filamentous fungus.
Patrick C. Hickey (UCLA), Anna Simonin (University of Sydney), N. Louise Glass (UC Berkeley), Marcus Roper (UCLA).</p> |
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VIDEOS

- V74. Diving with microparticles in an acoustic field.**
Alvaro Marin, Massimiliano Rossi (Bundeswehr University Munich, Germany), Rune Barnkob (DTU Physics, Denmark), Per Augustsson (Lund University, Sweden), Peter Muller, Henrik Bruus (DTU Physics, Denmark), Thomas Laurell (Lund University, Sweden), Christian Kahler (Bundeswehr University Munich, Germany).
- V75. A closer look at superhydrophobic contact lines.**
Adam T. Paxson, Kripa K. Varanasi (MIT).
- V76. Microfluidic vortex flows generated by opto-electrokinetic technique.**
Choongbae Park, Steven T. Wereley (Purdue University).
- V77. Drop Impingement on Highly Wetting Porous Surfaces.**
Young Soo Joung, Cullen R. Buie (MIT).
- V78. Bouncing and Rolling of Droplets on Superhydrophilic Surfaces.**
Young Soo Joung, Cullen R. Buie (MIT).
- V79. The Pilot-wave dynamics of walking droplets.**
Daniel M. Harris, John W. M. Bush (MIT).
- V80. Unsteady Flow and Force Control in Butterfly Take-off Flight.**
Haibo Dong, Chengyu Li, Zongxian Liang (University of Virginia), Xiang Yun (Wright State University).
- V81. Fluid Rude Goldberg Machine.**
Manu Prakash (Stanford University), Kevin Miklasz (Iridescent Learning), Nate James Cira (Stanford University), Haripriya Mukundarajan, James Clements, Jim Cybulski (Stanford University), Mariana Rutigliano, Cristiano Meira (Iridescent Learning).
- V82. Clocked microfluidic circuits.**
Georgios Katsikis, Manu Prakash (Stanford University).
- V83. Wake shift enhances lift in flying snake.**
Anush Krishnan, Lorena A Barba (Boston University), John J Socha, Pavlos Vlachos (Virginia Tech).
- V84. Airflow in subject specific human lungs: normal breathing**
Jiwoong Choi, Youbing Yin, Eric A. Hoffman (University of Iowa), Merryn H. Tawhai (The University of Auckland), Ching-Long Lin (University of Iowa).
- V85. The ‘Swiss cheese’ instability of bacterial biofilms.**
Hongchul Jang, Roberto Rusconi, Roman Stocker (MIT).

Sunday Evening, 18 November 2012

F1. Student Poster Session

5:50–6:50, Room: Ballroom 20D Foyer

F1.1 MICROFLUIDICS

F1.2 Film Thickness Between A Bubble And The Inner Wall Of Vertical Tubes Containing Viscous Liquids
Guadalupe Gutierrez, Abel Lopez-Villa, Abraham Medina

F1.3 Self-introduced Thermocapillary Convection In The Evaporating Process Of A Suspending Drop
JingChang Xie

F1.4 Hole-Closing Of A Surfactant Layer On A Thin Fluid Film
Matthew Hin, M. Richard Sayanagi, Rachel Levy, Karen Daniels

F1.5 Investigation Of Thin Film Coating Process For Printed Electronics With Suspension Ink By Slot Die Coating
Seung-Hyun Lee, Inyoung Kim

F1.6 Molecular Dynamics Simulations Of The Evaporation Of Particle-laden Drops
Weikang Chen, Joel Koplik, Ilona Kretzschmar

F1.7 Non-Linear Oscillation In Ionic Current Due To Size Effect In Glass Nanopipette
Tomohide Takami, Xiao Long Deng, Jong Wan Son, Eun Ji Kang, Tomoji Kawai, Bae Ho Park

F1.8 Resolving Distinct Conformations Of Spectrally Similar Silver-DNA Nanoclusters Using Electrokinetic Flows
Jackson Del Bonis-O'Donnell, Deborah

Fygenson, Sumita Pennathur

F1.9 Stochastic Analysis Of Antibody-antigen Binding In A Microfluidic Device
Shauna Adams, Cong Zhang, Harvey Zambrano, A.T. Conlisk

F1.10 Understanding The Nonlinear-optical Response Of A Liquid-core Photonic-crystal Fiber
Ilya Fedotov, Vladimir Mitrokhin, Alexander Voronin, Andrey Fedotov, Dmitriy Sidorov-Biryukov, Aleksey Zheltikov

F1.11 On-chip Micro- And Nanofluidic Electrokinetic Injection And Separation for PEGylation Analysis
Elijah Shelton, Mary Baum, Dan Morse, Sumita Pennathur

F1.12 The Clogging Behavior of Tapered Microchannels
Sorell Massenburg, Kaare Jensen, David Weitz

F1.13 Fluid Surface Deformation By Objects In The Cheerios Effect
Khoi Nguyen, Michael Miller, Shreyas Mandre

F1.14 Shape Control Of Doctor Blade Coated Polymer Electrodes Via Microflow Control In A Drying Droplet
Yunseok Jang, Jeongdai Jo, Seung-Hyun Lee

F1.15 Electrical Power Generation By Mechanically Modulating Electrical Double Layers
Dongyun Lee, Jong Kyun Moon, Jaeki Jeong, Hyuk Kyu Pak

F1.16 Direct Numerical Simulation Of Current-induced Convection Near An Ion-selective Surface
Clara Druzgalski, Mathias B. Andersen, Ali Mani

F1.17 Soret-driven Convection In Colloidal Suspensions
Mahmoud DarAssi, Layachi Hadji

F1.18 Super Free Fall In A Semi-infinite Cone Filled With A Low Viscosity Liquid
Ayax Torres, Guadalupe Gutierrez, Abel Lopez-Villa, Abraham Medina

F1.19 The Thinning Of Viscous Liquid Threads.
J. Rafael Castrejon-Pita, Alfonso A. Castrejon-Pita, Ian M. Hutchings

Student Poster Session

F1.20 Spreading and Fragmenting Characteristics of Impacting Droplet On Micro/ Nanostructured Water-Repellent Surfaces Hyungmo Kim, Chan Lee, Moo Hwan Kim, Joonwon Kim

F1.21 Enhanced Two Photon Fluorescence Microfluidic Sensor Based on Dual Cladding Photonic-crystal Fiber Lyubov Amitonova, Ilya Fedotov, Andrey Fedotov, Aleksei Zheltikov

F1.22 Speed Of A Taylor Swimmer In Newtonian And Viscoelastic Fluids Moumita Dasgupta, Bin Liu, Henry Fu, Michael Berhanu, Kenneth Breuer, Thomas Powers, Arshad Kudrolli

F1.23 Interaction Between Shape And Lipid Flow In Bilayer Membranes Padmini Rangamani, Ashutosh Agrawal, Kranthi Mandadapu, George Oster, David Steigmann

F1.24 Oscillation-induced Drop Transport Using Low-frequency Ac Electrowetting Jiwoo Hong, Seung Jun Lee, Kwan Hyoung Kang

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F1.26 An Experimental Study Of The Effect Of Viscosity On Bouncing Soap Droplets Onto A Horizontal Soap Film Amy-Lee Gunter, Hoi Dick Ng

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