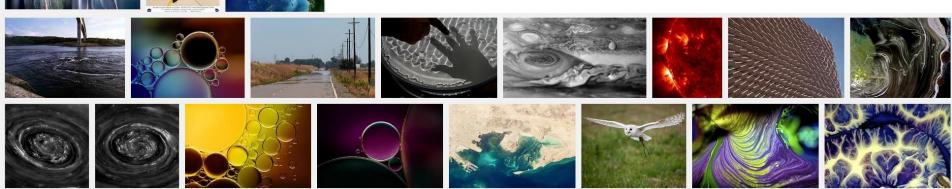




Getting started in science communication



Nicole Sharp, PhD

APS Division of Fluid Dynamics Denver, CO 20 November 2017





On science communication

http://nicolesharp.com/talks

NICOLE SHARP

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FYFD •

PRESS

TALKS

RESEARCH -



APS Division of Fluid Dynamics Presentations

- 2017: "F*** Yeah Fluid Dynamics: Getting into science communication," Slideshow
- 2016: "'In a sea of sticky molasses': The physics of the Boston Molasses Flood," Slideshow (.pptx, 43.4 MB)
- 2016: "F*** Yeah Fluid Dynamics: Inside the science communication process," Slideshow (.pptx, 22 MB)
- 2015: "F*** Yeah Fluid Dynamics: On science outreach and appealing to broad audiences," Slideshow (.pptx, ~9.5 MB)
- 2013: "Discrete surface roughness effects on a blunt hypersonic cone in a quiet tunnel," Slideshow (.pdf)
- 2013: "F*** Yeah Fluid Dynamics: Lessons from online outreach," Slideshow (.pdf)
- 2012: "Surface roughness effects on a blunt hypersonic cone," Slideshow (.pdf)
- 2008: "Complex dynamics of a boundary layer with free stream turbulence," Slideshow (.pdf)
- 2007: "Measurements in a boundary layer with intense free stream turbulence," Slideshow (.pdf)

This talk

Last year's talk

Or email: fyfluids@gmail.com

FYFD in brief...

Established: July 2010

Platform: Tumblr

Format: new posts M-F

Posts: 1850+

Readers: 259,500+

Featured by:

The New York Times

theguardian SPIEGEL

WIRED

physicsworld



GIZMODO





A Leidenfrost droplet impregnated with hydrophilic beads hovers on a thin film of its own vapor. The Leidenfrost effect occurs when a liquid touches a solid surface much, much hotter than its boiling point. Instead of boiling entirely away, part of the liquid vaporizes and the remaining liquid survives for extended periods while the vapor layer insulates it from the hot surface. Hydrophilic beads inserted into Leidenfrost water droplets initially sink and are completely enveloped by the liquid. But, as the drop evaporates, the beads self-organize, forming a monolayer that coats the surface of the drop. The outer surface of the beads drys out, trapping the beads and causing the evaporation rate to slow because less liquid is exposed. (Photo credit: L. Maquet et al.; research paper - pdf)

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Celebrating the physics of all that flows. Ask a question, submit a post idea or send an email. You can also follow FYFD on Twitter and Google+. FYFD is written by Nicole Sharp, PhD.

http://fyfluiddynamics.com









Science communication comes in all forms



Social Media



Blog



Comic (xkcd)



Poster (E. Lutz)



Video



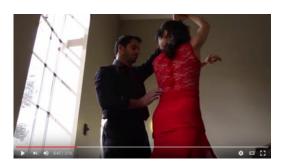
Song (Acapella Science)



Presentation



Webpage



Dance (Dance Your PhD)

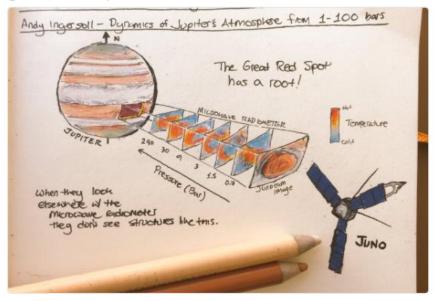


Spotlight: James Tuttle Keane





Andy Ingersoll—Juno is revealing the interior of Jupiter. Amongst the many discoveries: the great red spot has a root! #DPS17



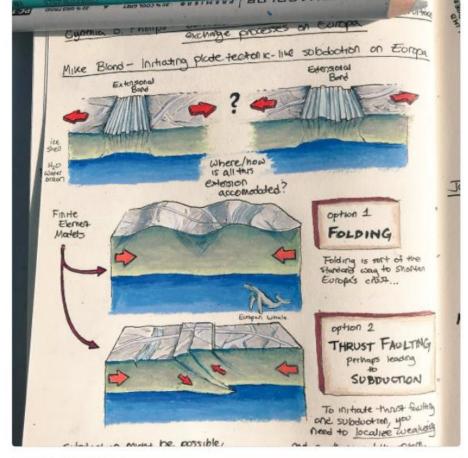
5:08 PM - 16 Oct 2017

Creative conference notes as public outreach.

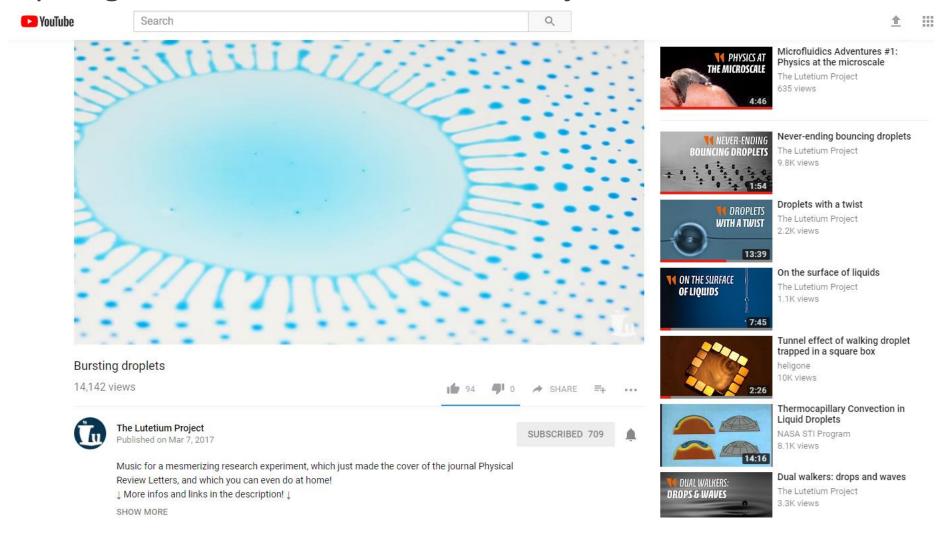




Mike Bland—Subduction of Europa's icy crust might happen if the conditions are just right (otherwise the crust folds) #DPS17



Spotlight in Fluids: The Lutetium Project



https://www.lutetium.paris/

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Spotlight in Fluids: Lib Lab



lib lab

Q



Lib Lab Episode 2: Solar Eclipse

Corvallis-Benton County Public Libr



LIB LAB Library Laboratory Pilot Episode: Make your own rocket

Corvallis-Benton County Public Libr 2.9K views



Lib Lab Episode 3: Soft Robots

Corvallis-Benton County Public Libr 649 views



LIB LAB Episode 5: 5 ways to watch the Eclipse Safely!

Corvallis-Benton County Public Libr 934 views



Why incompetent people think they're amazing - David Dunning

TED-Ed @ Recommended for you



EXPERIMENT - Salt Crystals Growing - Time Lapse (Micro

Chemical bouillon Recommended for you



Shadow Bands! Eclipse Follow

Corvallis-Benton County Public Libr 79 views



Lib Lab Episode 4: Vortices

Corvallis-Benton County Public Library

3.345 views













Vortex rings are an amazing phenomenon, and with a bit of added smoke look absolutely brilliant, but how do they work? Lets find out in this exciting and musical 4th episode of Lib Lab featuring the Oregon State University Drum Line! Learn about vortex rings and how to make your own Vortex SHOW MORE

https://cbcpubliclibrary.net/liblab/



Figuring out what fits for you



Figuring out what fits for you

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WIZARD STEPS

Project Information

Step 1: Audience

step 2: Budget

Step 3: Activity

Step 4: Project Description

Step 5: Evaluation

Summary

Step 1c: Audience Venue

Based upon your audience selection, the following is a list of potential venues and/or mechanisms by which you can deliver your message to this audience. Select a venue and proceed on to the next step of the wizard.

Please choose a venue you would like to work in.

- Community Outreach Events/Projects
- Multimedia (Websites, Podcasts, Print)
- Museums, Science Centers, Aquariums, Zoos

Description:

Scientists involve the community in research projects or provide tours and lectures to community groups and organizations.

Benefits of working in this Venue:

Potential to reach a larger audience and impart more information for a deeper understanding. Also, this self selecting for science interested audience and working in this venue provides a great deal of flexibility on the topic.

Challenges working in this venue:

Encounter a variety of ages and backgrounds. Also, depending on project (i.e. citizen science), it could involve a great deal of time and effort investment.



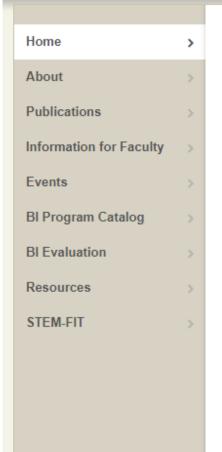
http://coseenow.net/wizard



Figuring out what fits for you

IOWA STATE UNIVERSITY

Strengthening the Professoriate @ ISU





Iowa State's Broader Impacts Resource



SP@ISU serves as a single point of contact on campus to gain knowledge in developing quality Broader Impact programs. SP@ISU helps make connections between researchers and resources on campus to develop and implement Broader Impact plans. The target audience is faculty, postdoctoral research associates, and advanced graduate students in science, technology, engineering, and mathematics (STEM).

The goal of SP@ISU is to strengthen the professoriate by enabling professional development in STEM, while promoting and enhancing a diverse community of scholars and learners.

Campus Resources

Grants Hub

Vice President for Research

Upcoming Events

NABI 2017 Summit - website and information

http://www.spisu.iastate.edu/



Workshops



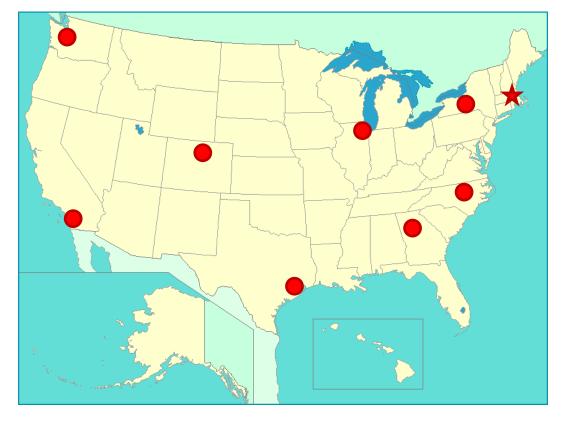
Workshops: ComSciCon



ComSciCon The Communicating Science workshop for graduate students

APPLY TO ATTEND CONTACT

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- Organized by grad students for grad students
- Meet professionals and other graduate science communicators

https://comscicon.com/

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Workshops: ComSciCon

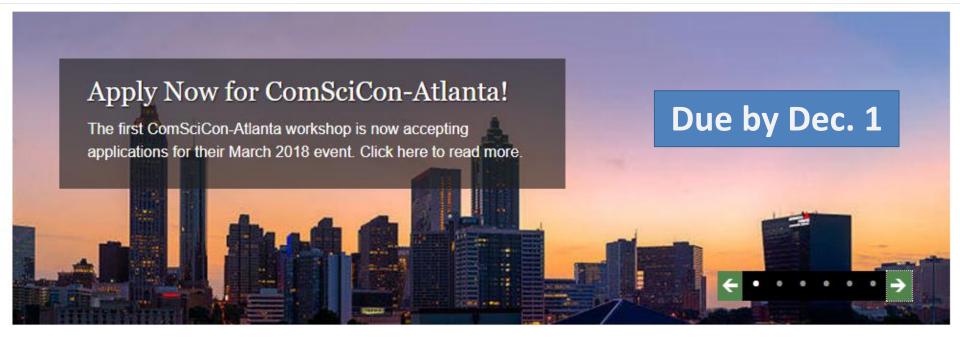


ComSciCon
The Communicating Science
workshop for graduate students

APPLY TO ATTEND CONTACT

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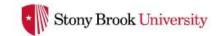


https://comscicon.com/



Workshops: Alda Center

COMMUNICATING SCIENCE



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ALDA-KAVLI LEARNING CENTER

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You've done the research. Share it with the world.

The Alda Center, Scientific American and The Kavli Foundation launch a live-streamed web series for scientists learning to blog about their work.

LEARN MORE

https://www.aldacenter.org/





Honing the craft



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PITCH DATABASE



- Science writers share the process behind their work
- Advice on blogging and online outreach from both researchers and journalists

https://www.theopennotebook.com/



Keeping up with best practices



Keeping up with best practices













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More resources!



http://scicommhub.com/



https://www.aaas.org/press-public-engagement



http://blog.ucsusa.org/category/science-communication



https://www.sxswedu.com/



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FYFD has merch now!







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Selected sticker designs for sale here at DFD

\$3 each, Buy 4, get the 5th free



Nicole Sharp

http://fyfluiddynamics.com fyfluids@gmail.com

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