

**Film Fest 2017
20th Anniversary!
With
Eric Muller, Paul Doherty, Liz Keim,
Sam Sharkey and Kathleen Maguire**

**This document can be found at:
<http://www.exo.net/~emuller/filmfest/>
*actually shown**



Exploratorium and TI

*[Strandbeests](#) (:30)

*Season 4 Episode 4: [The Contest / Prove It!](#) (start at 20:30 - for 4 minutes)

[Viscosity Bar](#) (2:05) (Science of cocktails)

Snacks

*[Snack- feeling pressured](#) (5:08)

Stithsonian

[Under pressure \(1:05\)](#)

FYFluidDynamics aka FYFD

*The Brazil Nut Effect (3:50)

<https://www.youtube.com/watch?v=ktA9CjbvDRo>

Sneak Peek at the Boston Molasses Flood Project (2:31)

<https://www.youtube.com/watch?v=-w1SeY8f0BE>

Simpsons

*[Strandbeests \(:54\)](#)

*[Conservation of momentum \(1:41\)](#)

[Zero Gravity \(1:06\)](#)

[Simpsons education \(51\)](#)

Biology

*[Why did the Fish cross the road? \(4:30\)](#)

[Micromigrations \(2:17\)](#)

BBC

'Brinicle' ice finger of death filmed in Antarctic (2:14)

[Battle at Kruger \(8:24\)](#)

[Squid Chromatophore dance to music \(3:31\)](#)

*[Cephalopod hunting MBARI \(1:14\)](#)

Chemistry

- [Turmeric fluorescence and indicator \(2:29\)](#)
- [Pressure balloons\(5:30\)](#)
- [Ring of truth with julia childs \(4:08\)](#)
- [Flaming orange peel squeeze slow mo \(1:30\)](#)
- [Orange oil squeeze 1000 gs \(1:16\)](#)
- *[Platinum - Periodic Table of Videos \(5:47\)](#)
- [Everything Matters The Exploratorium Guide to the periodic table, index.](#)

Physics

Throat Sining:

- [Tuvan throat singing \(5:42\)](#)
- [polyphonic overtone singing - Anna-Maria Hefele](#)

[Roller movie - off the rails\(7:24\)](#)

- *[Lighting hit car \(:36\)](#)
- * [Lightning hit pole Gif \(0:14\)](#)
- [Sound levitation\(4:33\)](#)

Gravitational waves

- Brian Greene (3:04)
- <https://www.youtube.com/watch?v=UXm2ofYgQco>

* Paul Doherty (0:15)

https://www.youtube.com/watch?v=txar_gzT14c&feature=youtu.be

Ultimate Gravitational wave explanation (membrane) (10:37) (show 6:00)

<https://www.youtube.com/watch?v=dw7U3BYMs4U>

[Train and warning \(1:34\)](#)

Bullet vs Prince Rupert's Drop at 150,000 fps - Smarter Every Day 165 (8:39)

<https://www.youtube.com/watch?v=24q80ReMyq0&feature=youtu.be>

*[2016 Fall Leaves \(:58\)](#)

[WallE Firextinguisher :11](#)

*[Pascal's Barrel \(6:50\)](#)

*[Tires down a ski jump \(6:14\) skip to end.](#)

[Runaway Truck Ramp \(1:15\)](#)

[Living not in the Bay Area \(1:40\)](#)

[Frozen Soap Bubbles \(1:20\)](#)

*[Zea \(5:20\)](#)

Geology

- [Scientist gets too close to lava lake!\(4:03\)](#)
- [Drone in Volcano \(1:45\)](#)
- [Marie Tharp: Uncovering Continental Drift \(4:33\)](#)
- * [Flash Flood California \(1:11\)](#)
- * [Lave torrentielle, Murgang, debris flow \(only need first 1:00\)](#)
- [NOAA Science on a Sphere Earthquakes \(3:39\)](#)
- [New Zealand Quake cliff face\(1:31\)](#)
- [New Zealand fault rupture drone footage \(1:50\)](#)
- [Continental Drift: Alfred Wegener Song by The Amoeba People \(3:03\)](#)

Astronomy

- * [Landing on Titan \(2:27\)](#)
- [Rocket Retry\(:44\)](#)

Math

- * [Bricks \(0:52\)](#)
- [Bricks and math \(3:59\)](#)
- [Journey to the Center of a Triangle \(8:35\)](#)

Perception

- * [The Wilhelm Scream Compilation \(2:58\)](#)
- * [Pretty Celebrities Turn Ugly \(0:58\)](#)

Measurements:

- * [Are Imperial Measurements outdated? | Number Hub with Matt Parker \(2:50\)](#)
- * [OCC vs Metric System \(2:31\)](#)
- [Smoots\(12:43\)](#)
- [To Scale: The Solar System \(7:07\)](#)

Engineering

- [See through combustion engine \(8:12\) + Paul Story](#)
- [Dropped bolt Safety \(1:17\)](#)
- [How Engineers play basketball \(3:35\)](#)

Science and Scientific method:

- [Monty python-witch \(4:55\)](#)
- * [Look around \(2:35\)](#)
- * [Scientific Studies: Last Week Tonight with John Oliver \(HBO\) \(start at 14\)](#)
- [Why Do I Study Physics \(3:15\)](#)

Cool

- [Vortex \(:05\)](#)
- [Toothpick star \(2:21\)](#)
- * [Squirrel vs Slinky \(0:38\)](#)

* [Squirrel vs slinky](#) (0:07)

[Ice Music](#) (4:30<https://www.youtube.com/watch?v=mG2uFviNWXU>)

Danny McAskill (6:42)

[A wee day out](#)

Magnets and marbles[Rube Goldberg](#) (4:04)

Strange and fun

[Medieval helpdesk with English subtitles](#) (3)

[Ipad cutting board](#) :44

[Wind Games dance in a Wind tunnel](#) (2:21)

*[Letterman](#) (33 minutes in)

[Science Jokes - CONAN](#) (2)

Commercials

[Museum of Science](#) (:31)

[Subaru on a Bobsled run](#) (1:58)

[Slow Mo sneeze](#) (1:36)

*[Doritos® Ultrasound](#) (:30)

[RokBlok bluetooth record playing self propelled box](#) (1:05)

[Pet Safe poop conspiracy](#) (2:12)

[Bugger](#) (:55)

Don't try this

[10 exploding 44 gallon barrels shooting 100m in the sky](#) (:49)

* [Snowboarder caught in avalanche, survives with inflatable backpack](#) (1:38)

[Skiing a mountain ridge](#) (1:43)

[Dunk a biscuit in tea from 250 ft](#) (1:15)

Channels

A Capella Science

*[All About That Base](#) (No Acid) (3:40)

[RHNB](#)

*[Floral Foam](#) (3:16)

Backyard Scientist

?[Oobleck](#) (from 3 to 4min in)

Hydraulic Press

*[Diamond vs Hydraulic Press](#) (first 1 to 2 min)

*[Intro video](#) (1:20)

Will it Blend

*[Ipad](#)(1:40)

Hot Knife

*[EXPERIMENT Glowing 1000 degree](#) (first few minutes)

Slow mo Guys and Warped Perception

Slow Motion: [Index](#)

*[Ball in face](#) (1:22)
*[Watching Popcorn pop](#) (2:17)
[Water Balloons Free Falling](#) yet another group(1:06)

Microscope Channel

*[Index and threading a needle](#) (2:05)

Crazy Russian Hacker

[Glow stick ferrofluid](#) (3:37)
* [Coke plus liquid nitrogen](#) (2:27)

Just Knuckleheads

[Propane added to Coca-Cola take off like a rocket?](#) (2:22)
*[Microwave oven and champagne bottle](#)(2:40)

Intermission related:<https://www.youtube.com/watch?v=y8CoqWKCllc>

[Walk on water oobleck](#) (2:31)

[Film Fest - Ooblek Trek](#) (3:12)

Brick - find elsewhere

Snacks - Feeling pressured - Find elsewhere

*[Art - Shrink Performance @ Brucknerhaus](#) (4:24)

[Store front](#) (1:55)

[Machine with Wishbone](#) (7:33)

OK GO

*[The one moment](#) (4:42)
[OK go -upside down and inside out](#) (3:21)

Eclipse on August 21st

[Exploratorium Solar Eclipse Index web page](#)

* [Einstein's Light Bending Concept \(Paul D\)](#) (2:12)

[Why we don't have an eclipse every month \(Paul D\)](#) (1:55)

[Eclipse Path](#) (2:44)

Art:

[Black hole](#) (2:42)

[3D Printed Zoetrope Animation Process & Walk](#) (2:16)

Vanta black

[Science of Vanta](#) Black (3:44)

[Nano-tube](#) (1:58)

[A Very Large Increase...](#) (2:16)

Movies

Gravity

*[Gravity-Matt Kowalski's Death](#) - (2:26)
[Gravity Debris](#) (2:44)

The Martian

[Mark Rescue Final Scene \(1:56\)](#)

*[San Andreas](#) (4:00)

Buy this:

[This ball could save your life in a tsunami](#) (:39)

*[Protection from earthquake -bed](#)(1:57)

Future:

[Fastbrick Robotics: Hadrian 105 Time Lapse](#) (2:07)

[3d Printed house](#) (1:52)

The end

*[Exploding Whale](#) 2:36

Image of platinum nugget :<https://www.usgs.gov/media/images/rare-platinum-nugget>