June 18, 2018 - June 29, 2018

ON-WATER INTENSIVE RESEARCH SEMINAR

Organized by

PENN PROGRAM IN ENVIRONMENTAL HUMANITIES
DREXEL UNIVERSITY
THE ACADEMY OF NATURAL SCIENCES

June 18, 2018

SCHUYLKILL RIVER TOUR
BARTRAM'S GARDEN

Led by

PETE DECARLO
BETHANY WIGGIN


LIBERTY






NEWCOLLEGE HOUS
SYRA


MAKE AMERICA
NOTHING AGAIN
ANTBOXES


SECURITY NOTICE
























BARTRAM'S


LIBERTY



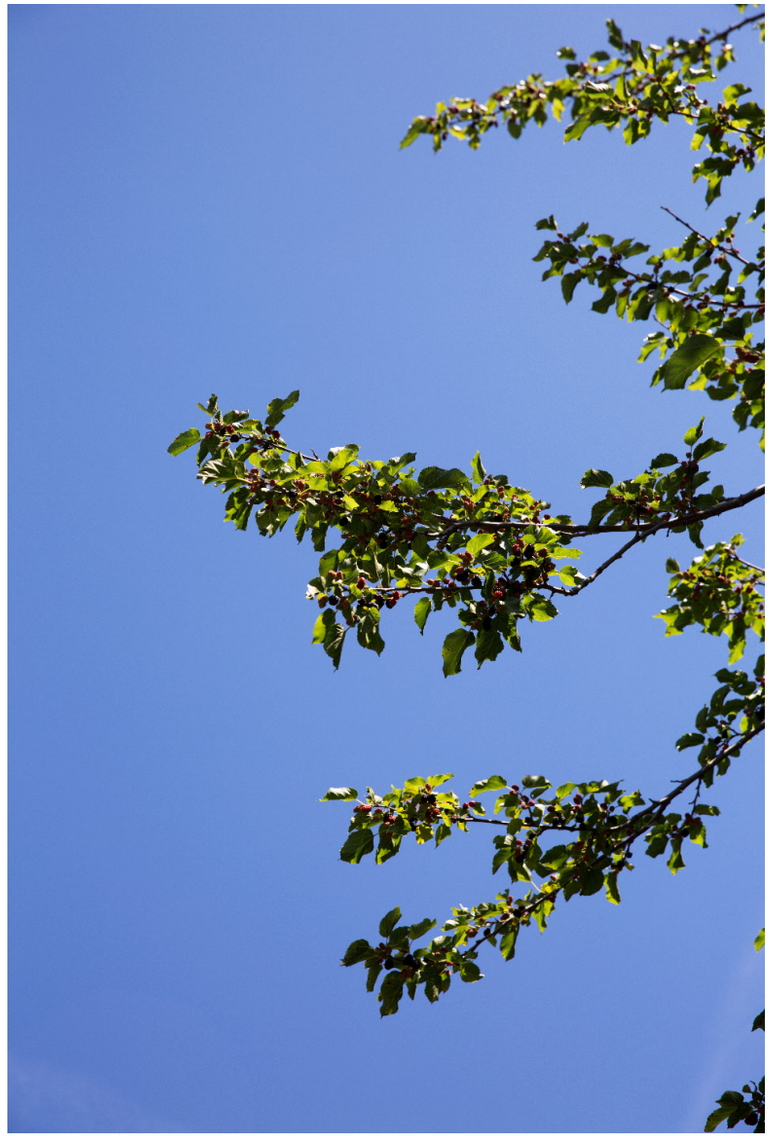

GOOD
ART






SYRACUSE





























June 19, 2018

MORRIS ARBORETUM WISSAHICKON CREEK

Led by The Academy of Natural Sciences'

DAVID VELINSKY
ROLAND WALL






The Academy of
Natural Sciences
of DREXEL UNIVERSITY






Naturalist












THE ACADEMY OF NATURAL SCIENCES
INSECTAPALOOZA
DEFEND
LOVE


GET MOVING










ZARO





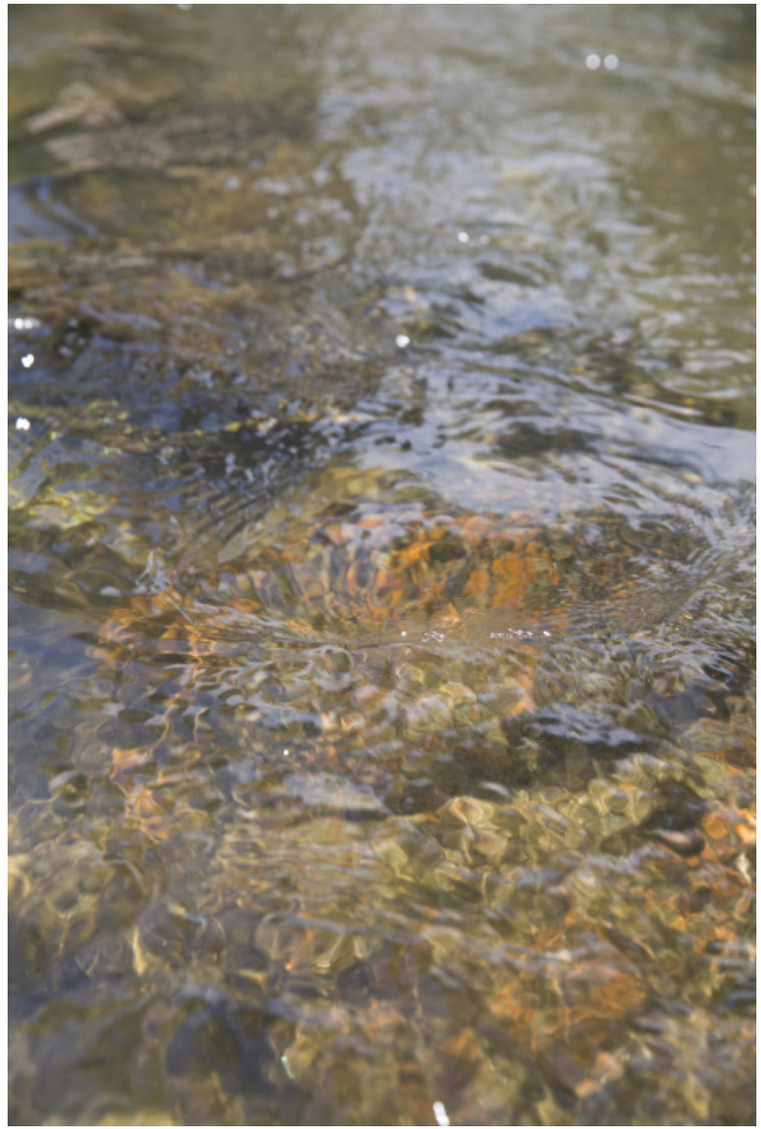







The Academy of
Natural Sciences



























June 20, 2018

BARTRAM'S GARDEN COMMUNITY BOATHOUSE

Led by

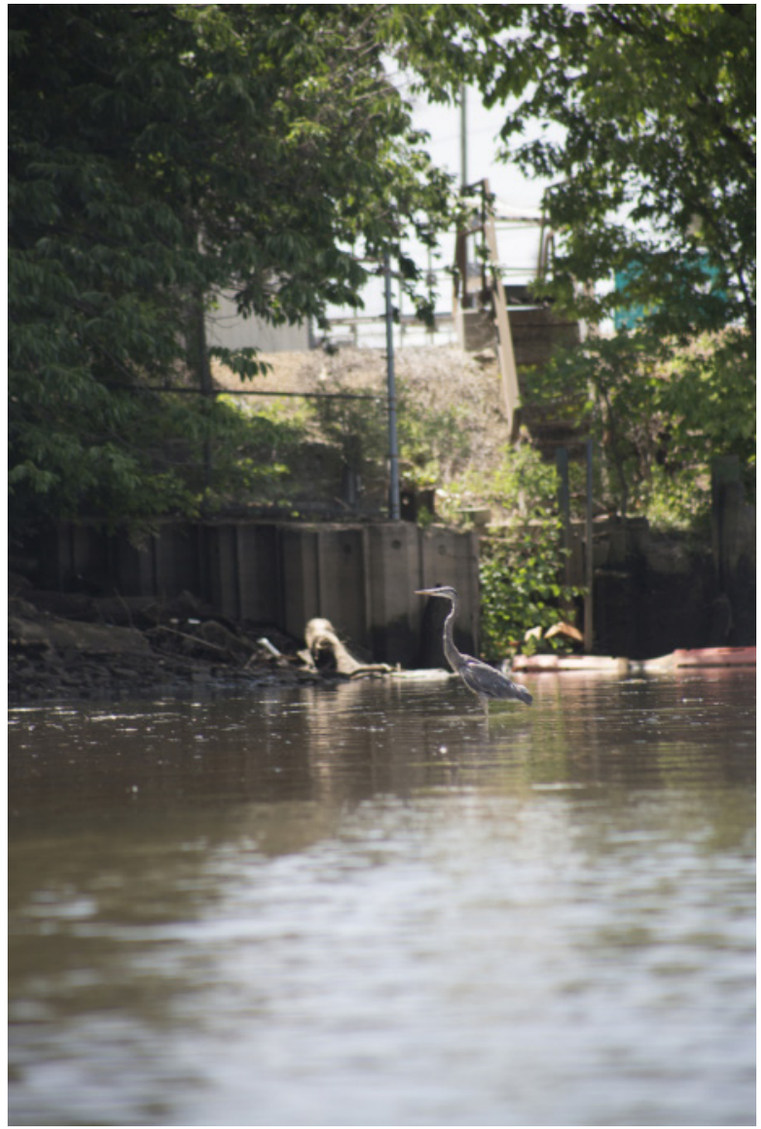
BETHANY WIGGIN
2018 ECOTOPIAN ARTIST **DYLAN GAUTHIER**


OCEAN KAYAK
MALIBU TWO






250
perception
Tribe


















SPAIN
THE
OS
BOYS
CLUB












14











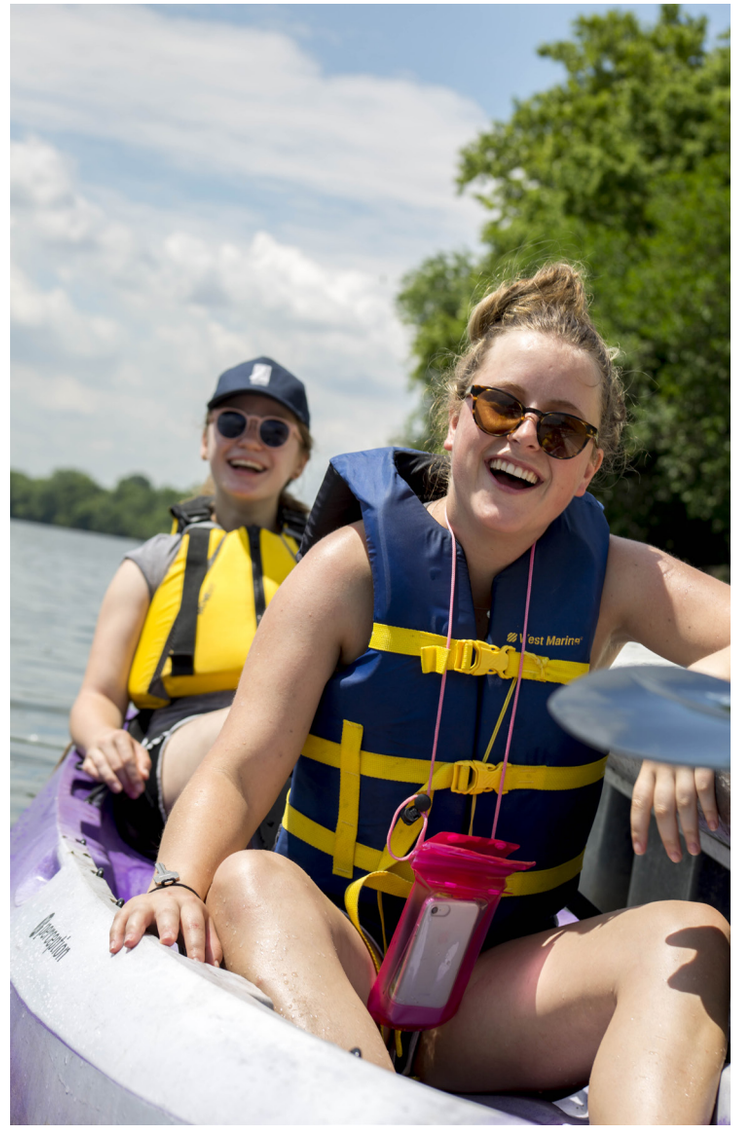



Tropicana
TPIX
337
























choices.carnegiecentral.org
Philadelphia, PA, USA
Which sea level will we lock in?
Market Street
Chestnut Street
Walnut Street
Spruce Street



June 21, 2018

BARTRAM'S GARDEN
RIVERBANKS
CHARLES ADDAMS FINE ARTS HALL

Led by PPEH Artist-in-Residence

JACOB RIVKEN


Land // Art // Water // Public
Why do artists make works about waterways?


Agnes Denes, *Wheatfield, a confrontation*, 1982



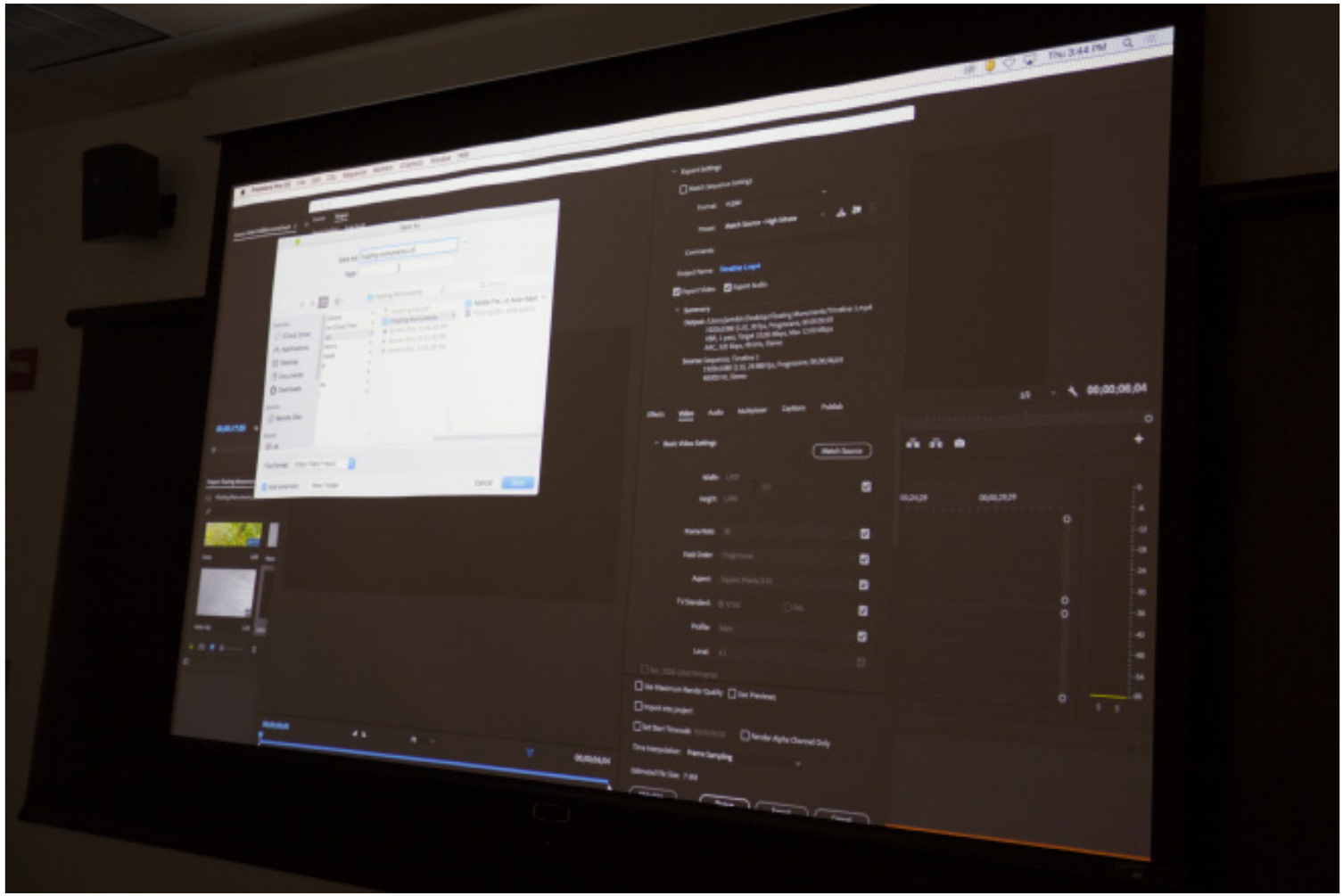



SBIA














"We're not running.
We're flying."







FLOATING MONUMENTS/ LOVE LETTERS/ MEMORIES TO THE SCHUYLKILL

Written by
JACOB RIVKEN

Students used the historical/biological/artistic toolkits developed during the seminar to create site specific works using found materials that envisioned a Floating Monument to the Schuylkill River, led by PPEH Artist-in-Residence Jacob Rivkin. Students documented through video the process of making, collaborating, and installation. A guided tutorial in the afternoon taught students how to edit footage together to create short films of their work. The five films below are what they created.

LOST AND FOUND

ANA ALONSO, KAYIN BANKOLE, JAMIE GOBRESKI, LUNA SARTI

This video explores the transformations that the Schuylkill River catalyzes as observed by our group during our time on and around the water. The River continually shifts the shoreline with rising tides, covering and uncovering the banks. These processes occur in a plastic bottle on objects found on the banks, chosen and placed into the bottle by members of our group. Sediment deposited into our bottle obscures the found states of the objects. After repeatedly dipping the bottle into the river, water filtered through holes we cut into the bottle to reveal the altered state of its contents.

Lost and Found is an ode to the shifting tides of the Schuylkill and the objects we may not pay close attention to that reside upon its banks— individual leaves, washed up glass, broken twigs. These objects, lost to our eyes, are found by our fingers, lost again in the sediment and found again by the Schuylkill waters.





Photos by Ana Alonso, Kayin Bankole, Jamie Gobreski, Luna Sarti



Photos by Ana Alonso, Kayin Bankole, Jamie Gobreski, Luna Sarti

WHIMSY ON THE WATER

STEPHANIE GARCIA, CARLOS PRICE-SANCHEZ , MAYCI SHIMON

After individual brainstorming, we combined all of our ideas: a hanging mobile, a message in a bottle, an extension of infrastructure. Inspired by the banks of the Schuylkill, our ideas continued to change: we wrote letters to the river, dyed string with mulberry juice, tied and hung branches, stones and bottles to create a kind of windchime. Our creation seeks to express itself across multiple senses – from the sound of the knocking parts, to its swaying in the wind, and the smell of various leaves dragged across its structure. The result is an irreverent documentation of a highly precarious construction.





Photos by Stephanie Garcia, Carlos Price-Sanchez , Mayci Shimon



Photos by Stephanie Garcia, Carlos Price-Sanchez , Mayci Shimon

FLOATING HERON

GRACE BOROUGHS, MARTIN PREMOLI, KATHRYN SMALL

After finding a dead goose on the banks of the Schuylkill we decided to build a monument to the life of birds in the area. We wanted to envision the future possibility of bird, specifically heron, evolution in response to pollution, litter etc. along the Schuylkill River bank.

We chose the heron because it was one of the birds that we had seen in our time on the river and we depict the impact of change in this bird's environment. Using the images of birds that had swallowed plastic and glass pieces as inspiration, we used a clear plastic bottle filled with glass.

All the materials were found in Bartram's Garden and were a mix between man-made and natural objects.





Photos by Grace Boroughs, Martin Premoli, Kathryn Small



Photos by Grace Boroughs, Martin Premoli, Kathryn Small

FOR WHAT IT'S WORTH

BRI BARTON, HENRY COLBY, ROSE NAGLE

Creating a floating monument to the Schuylkill River and the refinery on its banks became an act of service by gathering as much trash as possible. In the process of building the monument, we removed litter from the riverbanks.

From discarded bottles, boxes, pens, and plastic, we built a replica of the segment of river that runs between Bartram's and the refinery. The refinery's pipelines and towers has become irreversibly incorporated into the riverine landscape. While lacking the foreboding of the refinery's vast infrastructure, Bartram's garden also deliberately shapes the riverbanks, if in a less visibly manufactured way.

Though we barely made a dent in the plastic and styrofoam along the river, the ritual or performance of picking up trash allowed us to meaningfully interact with the river.





Photos by Bri Barton, Henry Colby, Rose Nagle



Photos by Bri Barton, Henry Colby, Rose Nagle

SHORT VOYAGE OF THE S.S TURKEY — THREE POETIC INTERPRETATIONS

JOLIE GITTLEMAN, MAX PARRISH, SAM SAUNDERS

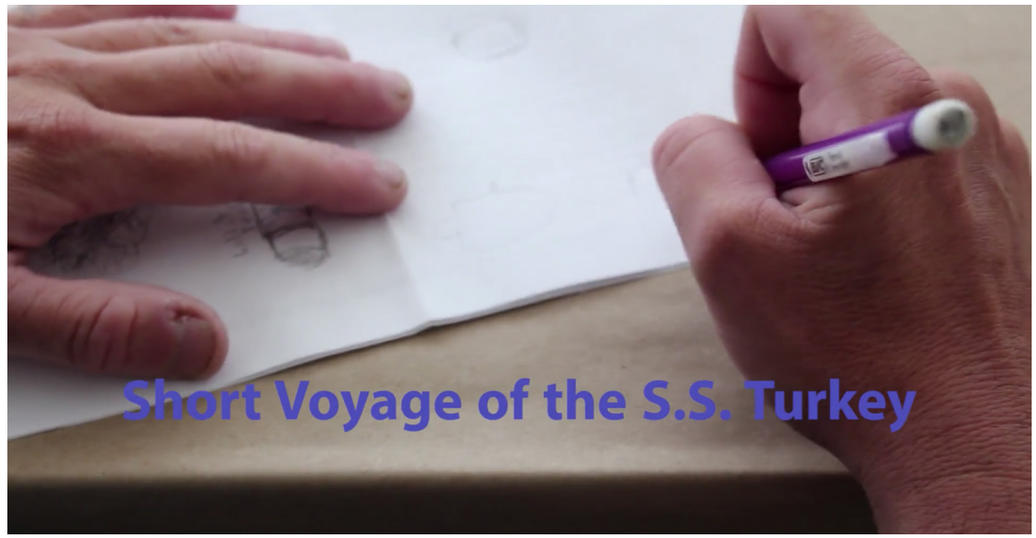
We found a turkey feather in the field
We built a nest the feather would adorn.
The bottom of the nest was never sealed
Proudly there the nest the feather worn.
The raft, upon pontoons, was settled there
Of twigs and rope, it held a solid form.
The bottles ‘neath the raft, its weight would bear
To float the nest’s small ship through any storm.
We tied it to a rope and let it go.
And watched it bob and dip beneath the breeze
We left it to the whim of Schuylkill’s flow.
She floated there, and seemed to move with ease
But then, too soon, we had to leave the dock.
Left boat in shed, ‘twas guarded by a lock.

–

There once was a boat called the Turkey
whose design was really quite quirky,
she was built with a nest–
a raft was the rest
and her launch was a bit herky-jerky.

–

Turkey-feather mast
Half a day to test and launch
Blue above, below





Photos by Jolie Gittleman, Max Parrish, Sam Saunders



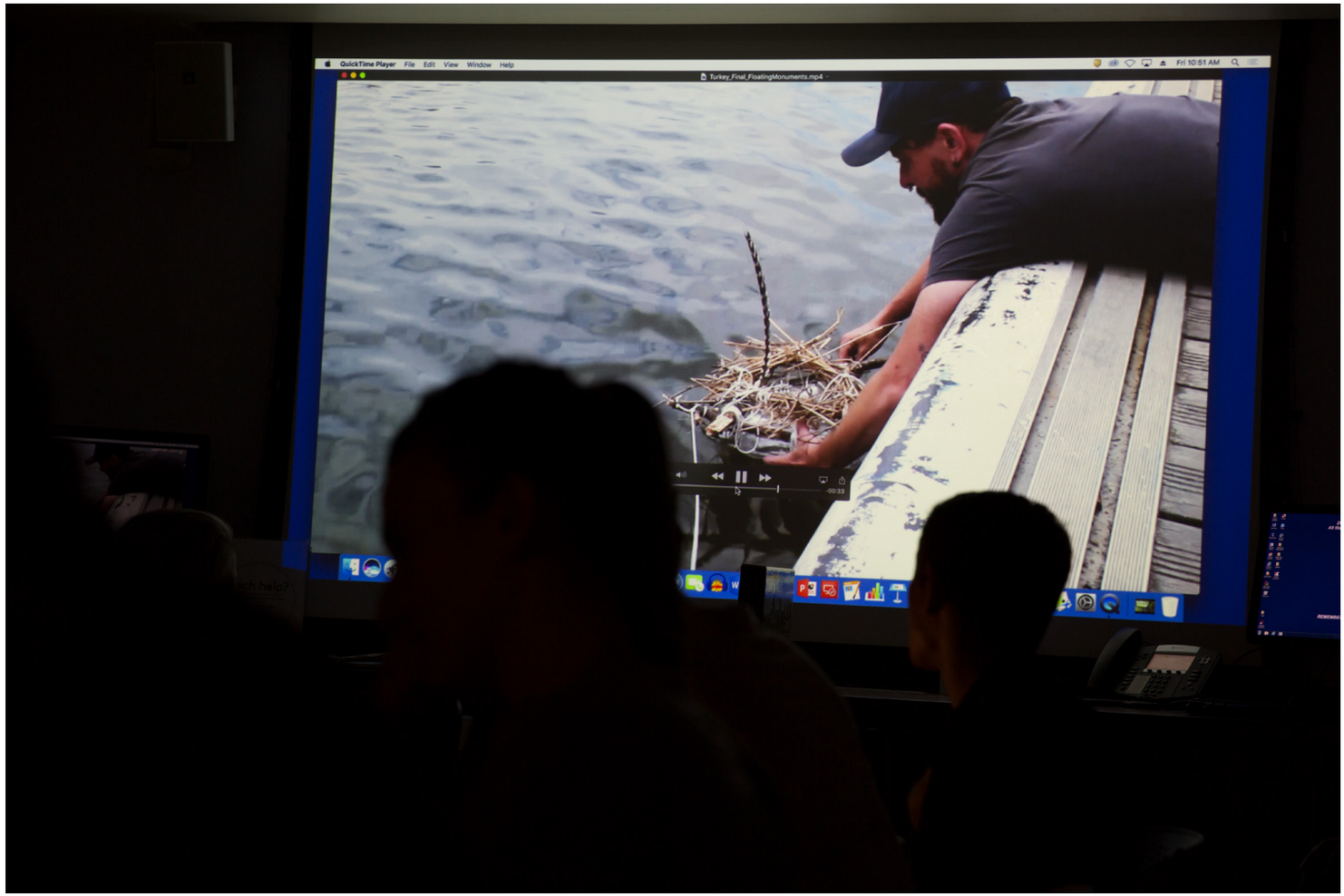
Photos by Jolie Gittleman, Max Parrish, Sam Saunders

June 22, 2018

PENN'S VAN PELT LIBRARY SEMINAR ROOM

Facilitated by

PETE DECARLO
BETHANY WIGGIN


QuickTime Player File Edit View Window Help
Fri 10:51 AM
Turkey_Final_FloatingMonuments.mp4





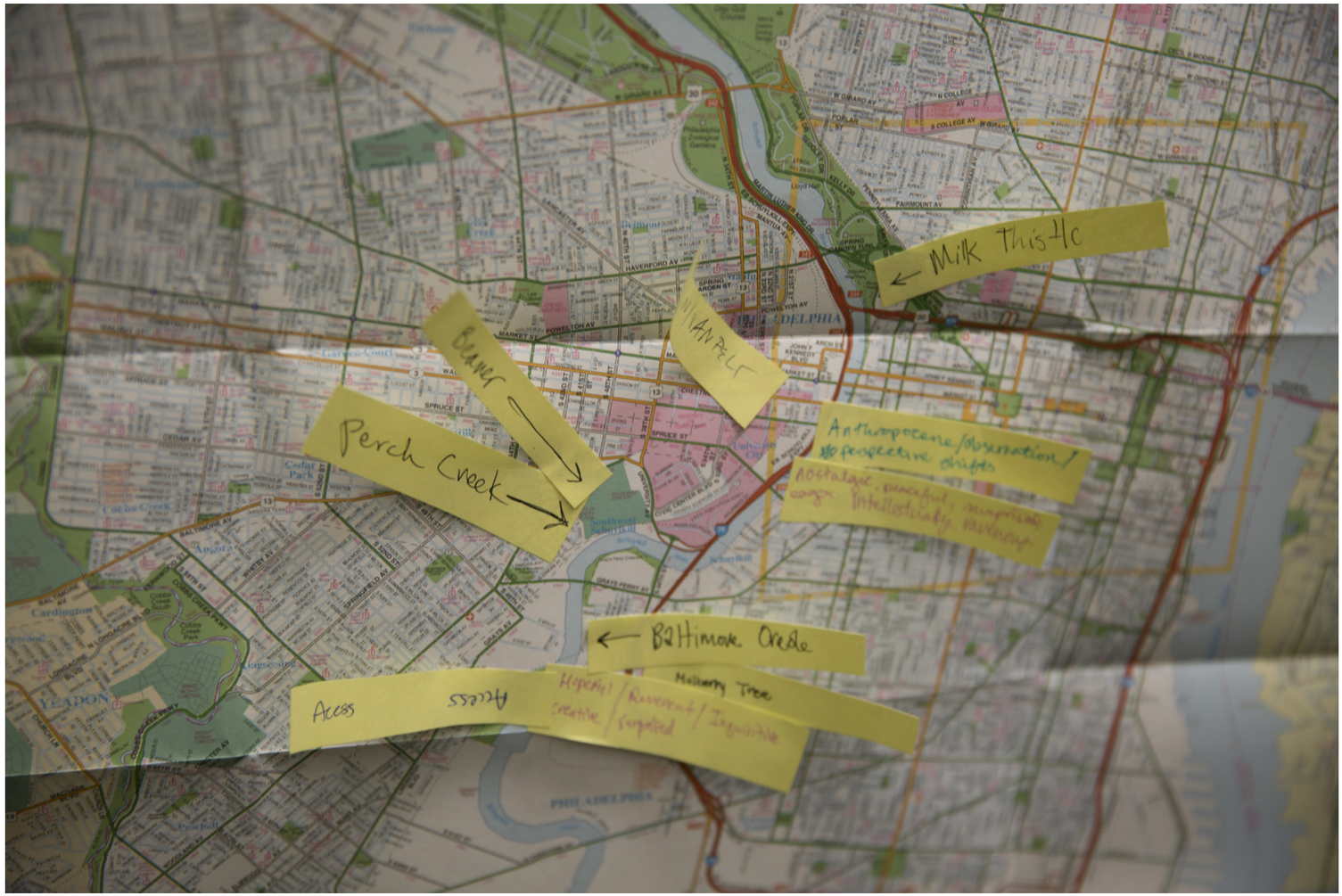

Deleted maps now go to your Trash




SOUTH
STREET
BRIDGE





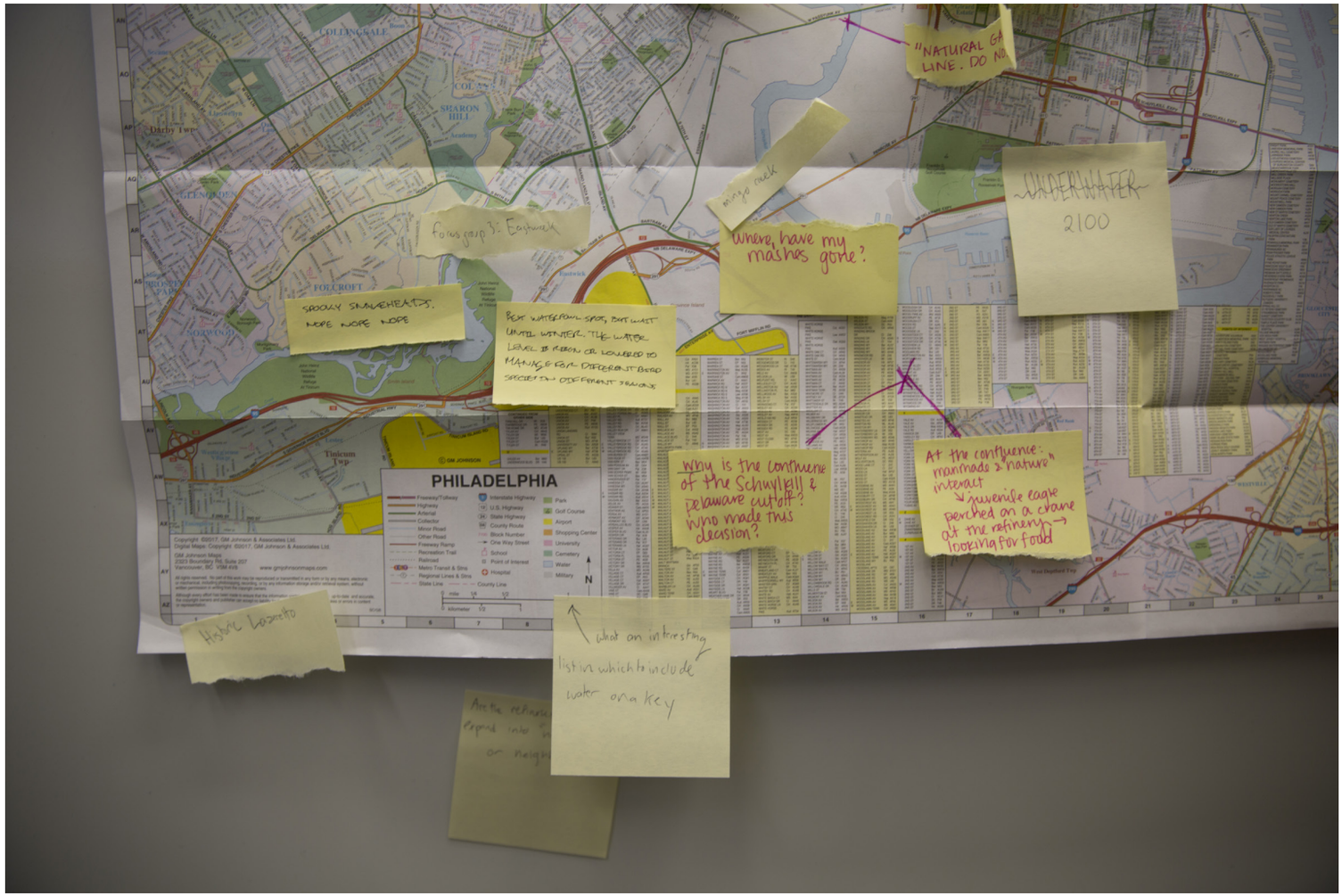

Milk Thistle
Beaver
Perch Creek
Anthropocene/observation/perspective shifter
Nostalgic, peaceful, inspired, Intellectually curious
Baltimore Oriole
Mulberry Tree
Access
Access
Hopeful/creative
Reverent/Inquisitive/Surprised



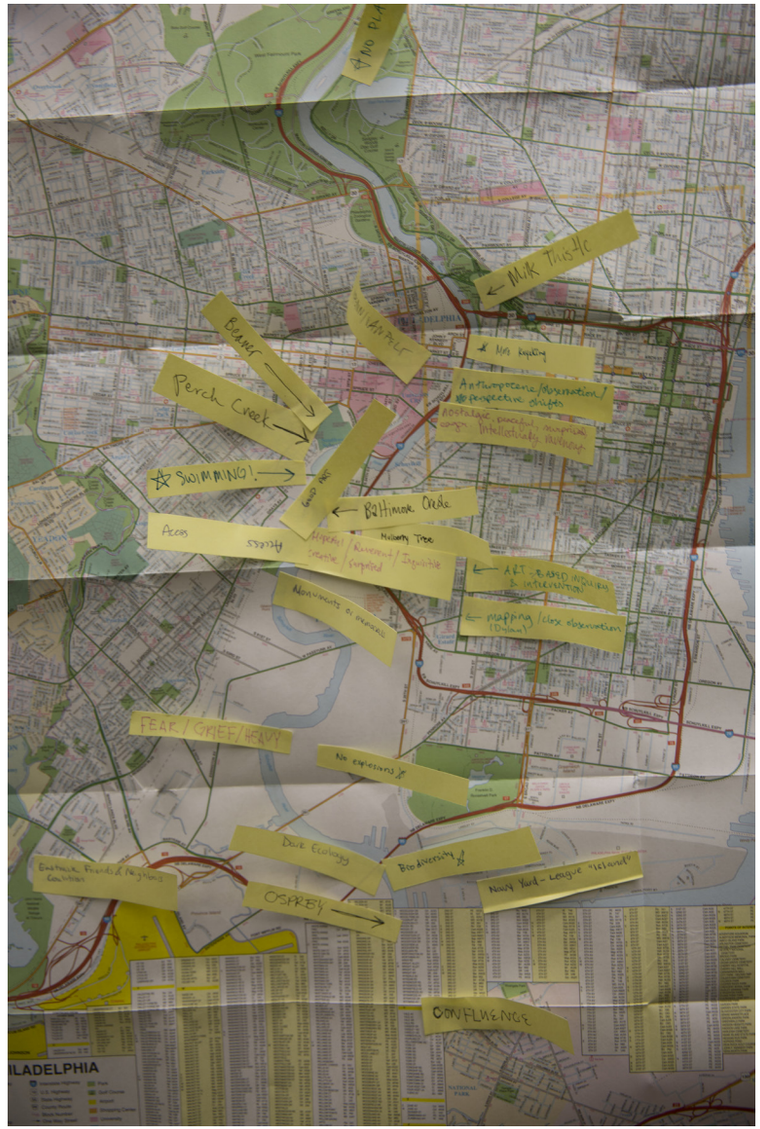

On-Water Intensive
HOME
SCHEDULE
POSTS
ASSIGNMENTS
READINGS
LOCATIONS
INSTRUCTORS


STREET
PENN DEMS
Alpha Phi Omega
oxygen?




"NATURAL GA
LINE. DO NO
UNDERWATER
2100
where have my
marshes gone?
focus group 3: Eastwick
SPOOLY SMOKESTACKS.
NOPE NOPE NOPE
BEST WATERFOWL SPOT, BUT WAIT
UNTIL WINTER. THE WATER
LEVEL IS HIGH, OR LOWERED TO
MANAGE FOR DIFFERENT BIRD
SPECIES IN DIFFERENT SEASONS
Why is the confluence
of the Schuylkill &
Delaware cut off?
Who made this
decision?
At the confluence:
manmade & nature"
interact
↘ juveniste eagle
perched on a crane
at the refinery →
looking for food
PHILADELPHIA
Historic Lazretto
what an interesting
listin which to include
water on a key


Milk Thistle
Beaver
Perch Creek
SWIMMING!
Bathtub Crabs
Access
Memory Tree
ART-BASED INTERVENTIONS
mapping / close observation
Monuments of Industry
FEAR / GRIEF / HEAVY
Dune Ecology
OSPREY
CONFLUENCE
PHILADELPHIA


Milk This 4/6
Beaver
Perch Creek
SWIMMING!
Bathymetric Creek
Access
Nursery Tree
Monuments & Statues
FEAR / GRIEF / HEAVY
No explosives
Dune Ecology
Biodiversity
OSPREY
CONFLUENCE
PHILADELPHIA

June 25, 2018

BARTRAM'S GARDEN COACH HOUSE

Led by

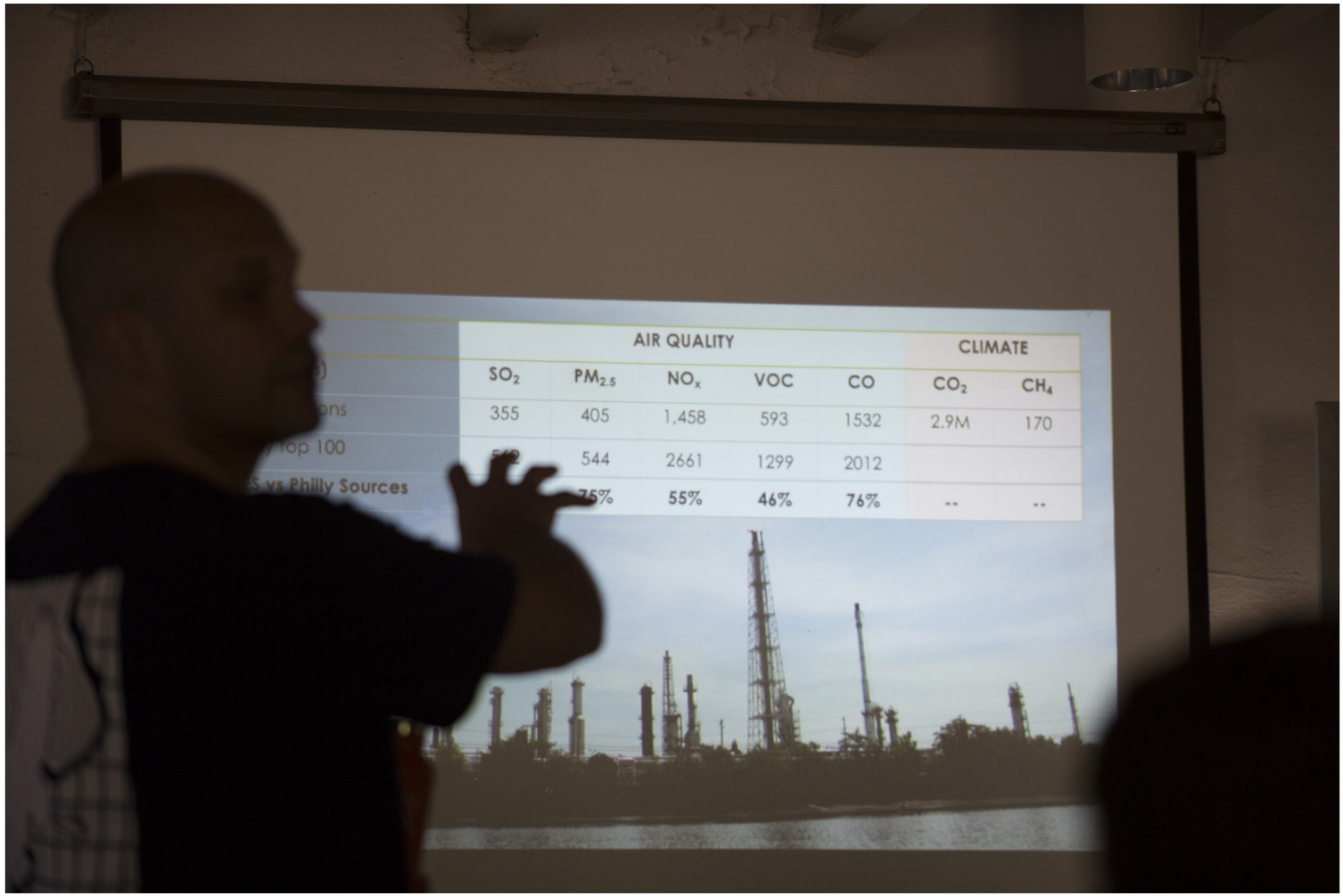
PETE DECARLO


Coach
House

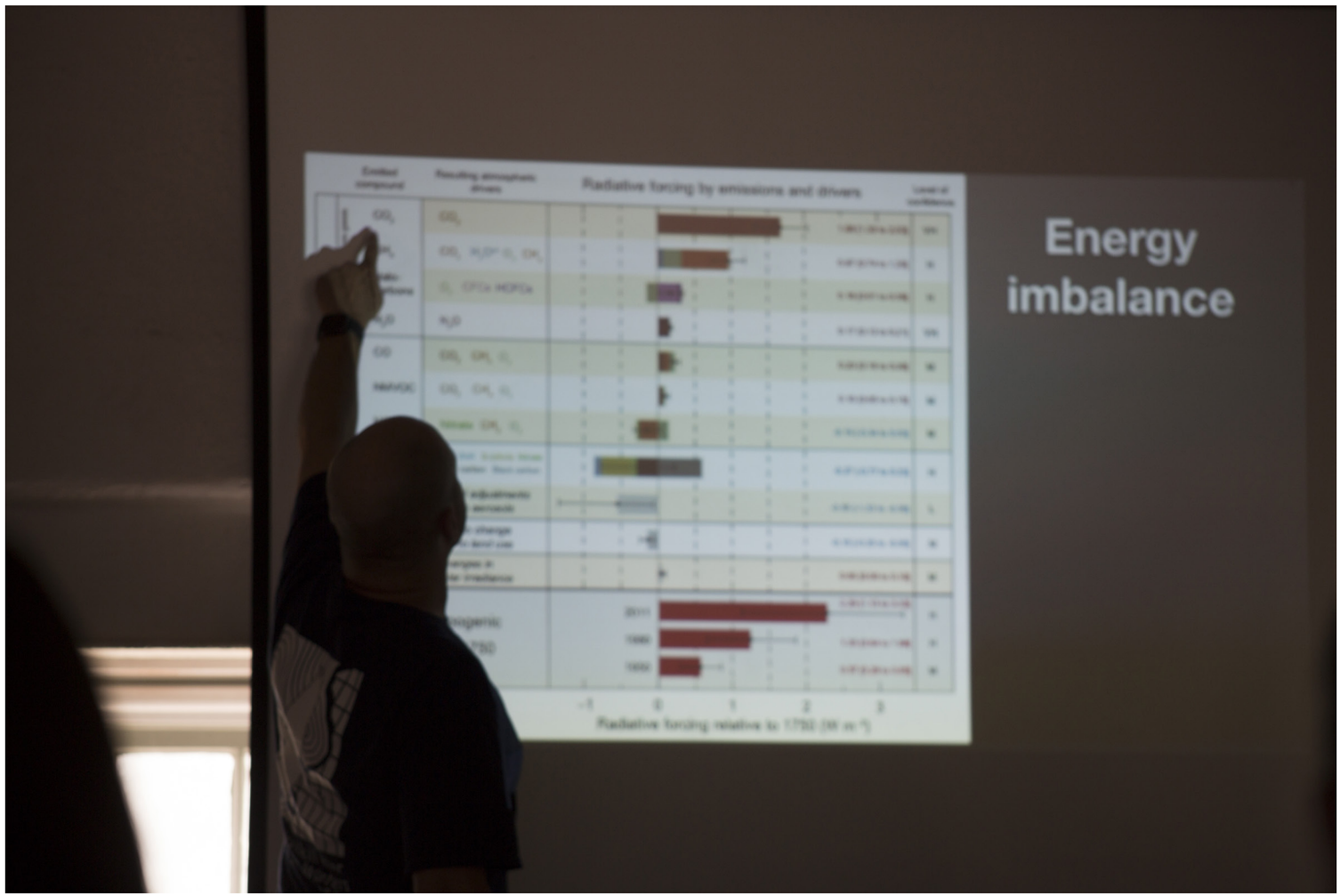

AIR QUALITY
CLIMATE
2014 (tons)
SO2
PM2.5
NOx
VOC
CO
CO2
CH4
PES emissions
355
405
1,458
593
1532
2.9M
170
Philly top 100
562
544
2661
1299
2012
PES vs Philly Sources
63%
75%
55%
46%
76%
--
--




Seeing what you can't see
39.930
39.925
39.920
39.915
39.910
39.905
latitude
-75.215
-75.210
-75.205
-75.200
-75.195
-75.190
longitude
0.0 0.2 0.4 0.6 0.8 1.0
CH4 (Δppm)
Tank Farms
Natural Gas Pipeline
Tank Farms


AIR QUALITY
CLIMATE
SO_2 $PM_{2.5}$ NO_x VOC CO CO_2 CH_4
355 405 1,458 593 1532 2.9M 170
544 2661 1299 2012
55% 46% 76% -- --
top 100
vs Philly Sources




Energy
imbalance
Radiative forcing by emissions and drivers
Radiative forcing relative to 1750 (W m⁻²)


Earth fromSpace
Mid IR
visualizing water




smoke
sea salt
dust


Energy
imbalance






15
D.E.P. # 4-A





June 26, 2018

DELAWARE RIVER
SCHUYLKILL RIVER
FAIRMOUNT WATERWORKS

Led by

PETE DECARLO
BETHANY WIGGIN

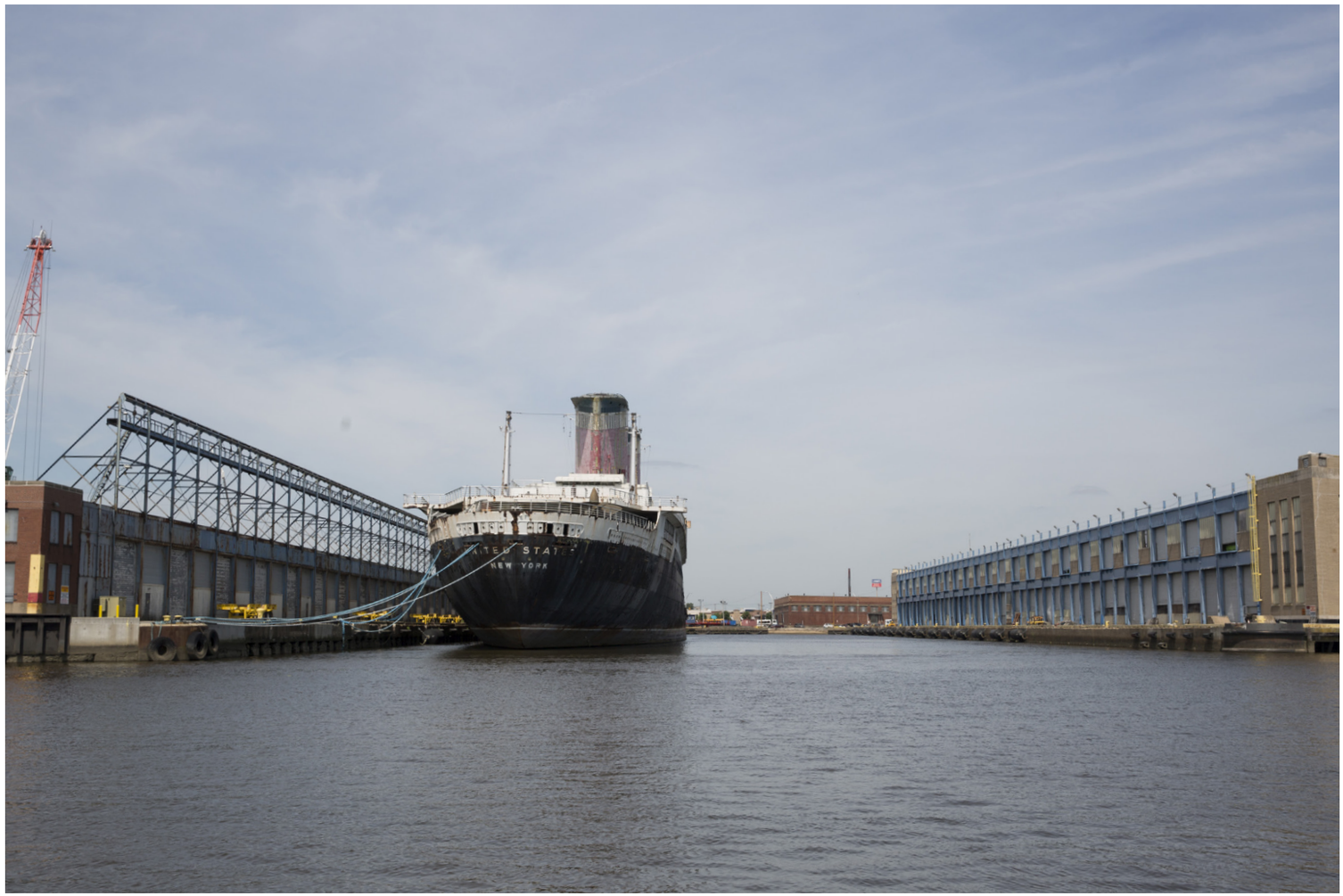

ROVE BAR








MUNICIPAL




PIER 92


















105

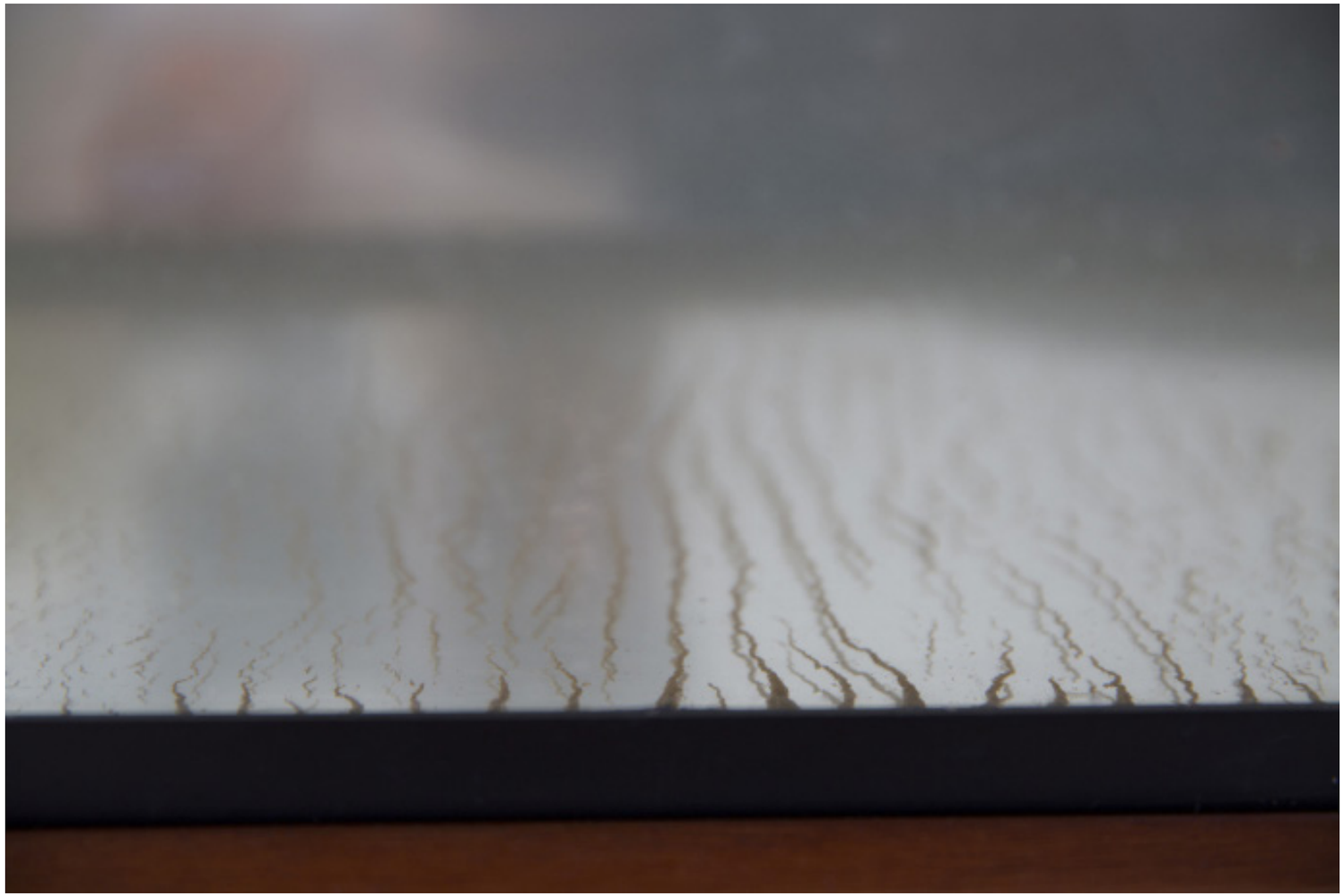

NATURAL GAS
PIPELINE
CROSSINGS
DO NOT
ANCHOR






RETURN








24
EAU DISTILLÉE
AGUA DESTILADA
H_2O


BAUSCH & LOMB
DELAWARE
WATERSH
FE
24
STILLED WATER
EAU DISTILLÉE
AGUA DESTILADA
H_2O
CAS No. 7732-18-5
SLIDES
globe




PA 1624 C


THE ACADEMY OF NATURAL SCIENCES
DREXEL UNIVERSITY
Cabela's

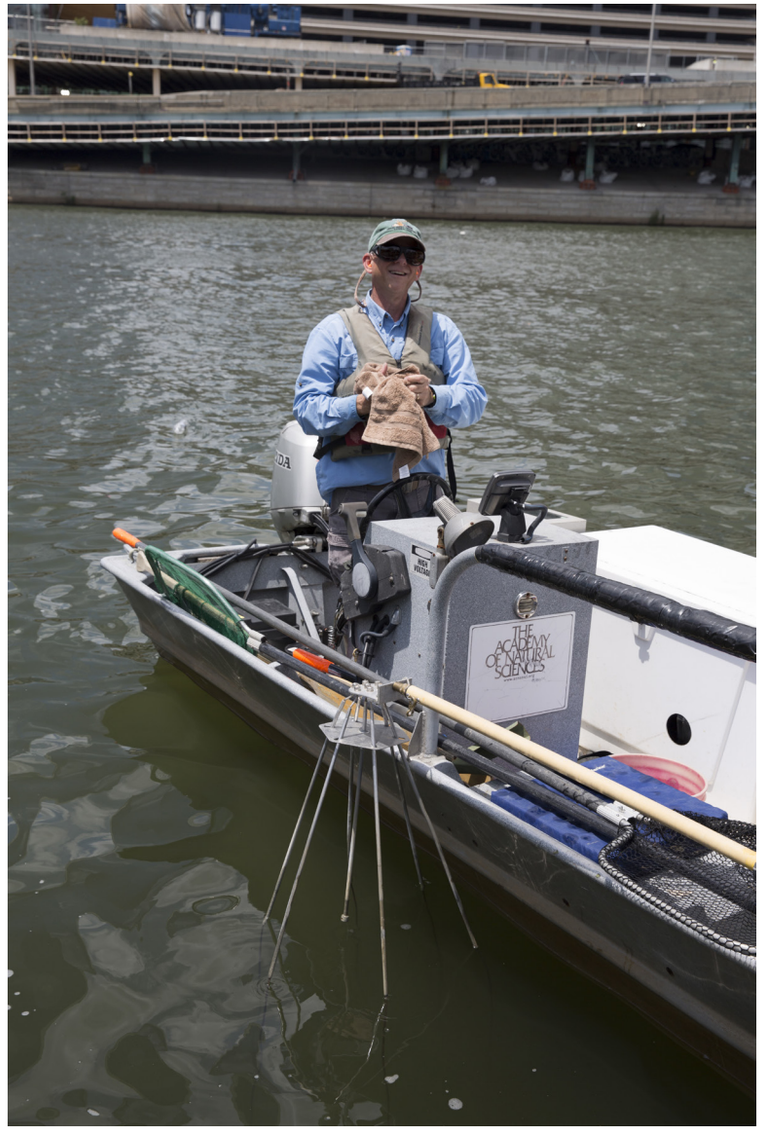

THE
ACADEMY
OF NATURAL
SCIENCES










THE ACADEMY OF NATURAL SCIENCES


PATRIOT
THE ACADEMY OF NATURAL SCIENCES
Sabine River Survey






FISHTOWN FESTIVALS



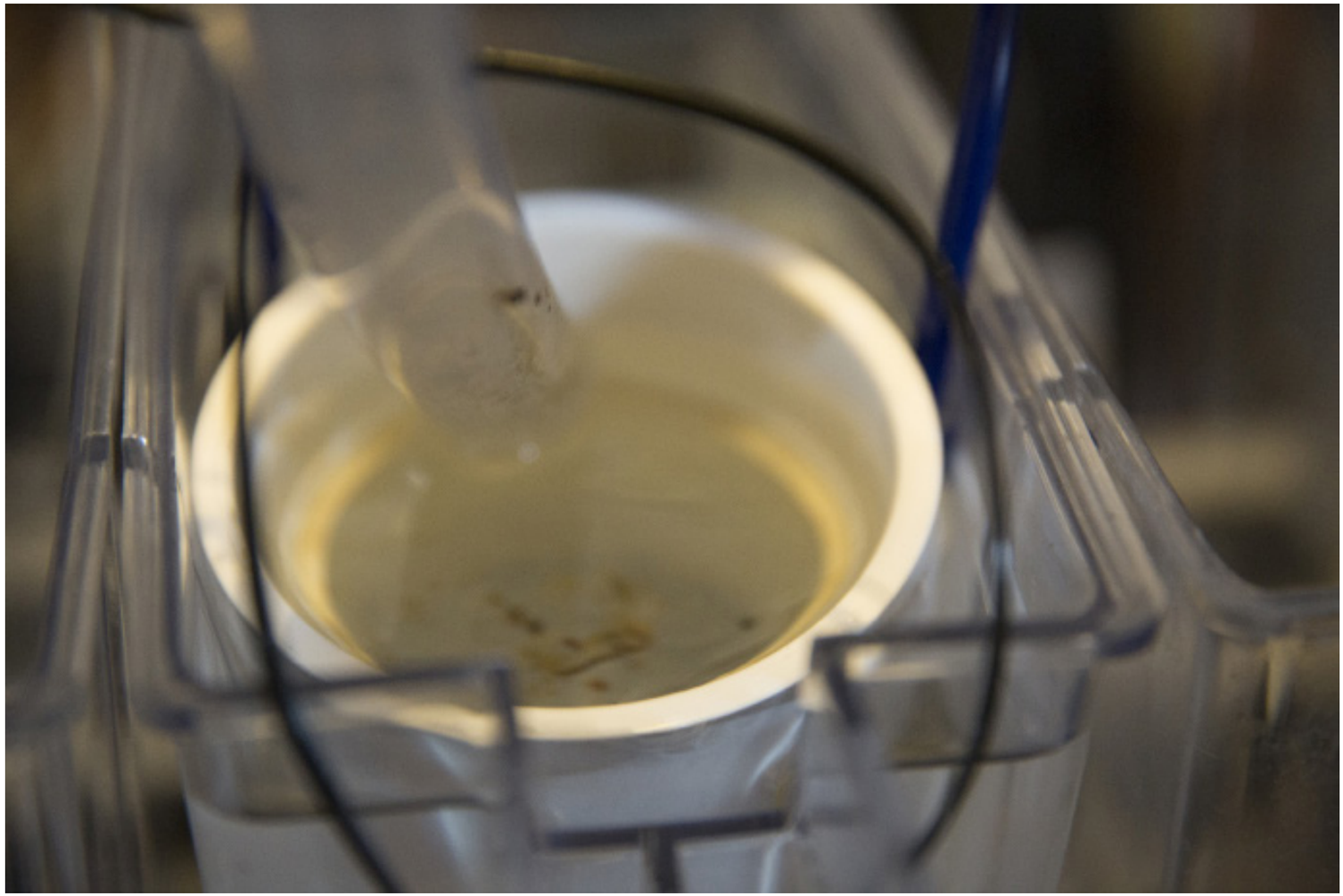



FAIRMOUNT
WATER
WORKS




AERATION






In Vitro food


Distilled Wate
SPRIN
SPRING
NALGENE
Right-To-Know
Safely Products

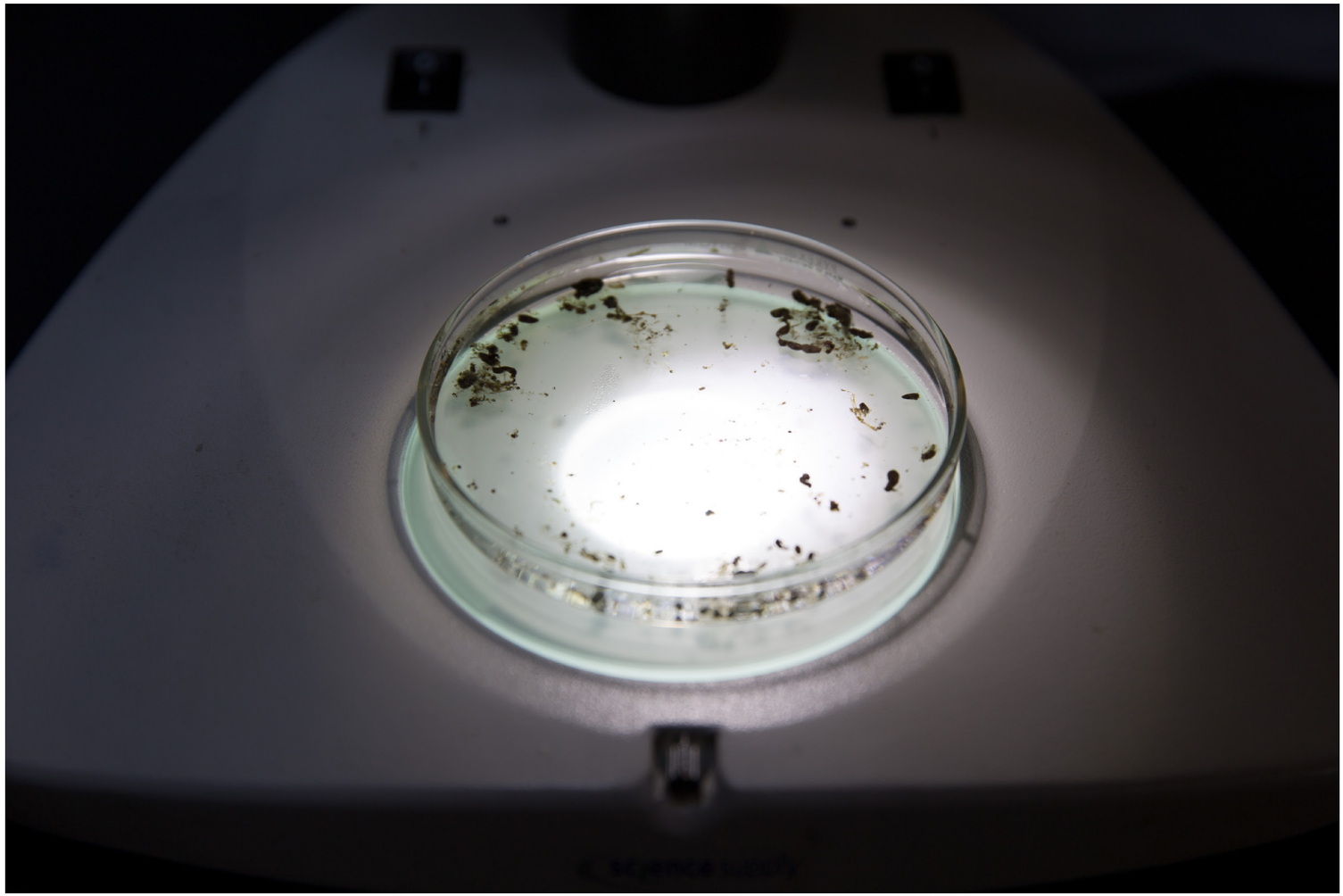

STOP
Device Output
Water Pump
UV Sterilizer
Heater
Water Exchange
pH Dose Pump
Ch Dose Pump
Off
Off
Off
Login
F1
F2
F3
F4
V350
PENTAIR
AQUATIC ECO-SYSTEMS











June 27, 2018

EASTWICK
JOHN HEINZ NATIONAL WILDLIFE AT TINICUM

Led by

WALK AROUND PHILADELPHIA **ANN DE FOREST, ADRIENNE MACKEY, J.J. TIZIOU**
EASTWICK FRIENDS AND NEIGHBORS COALITION **EARL WILSON**










On The Water / Walk Around Philadelphia / June 27, 2015
www.WalkAroundPhiladelphia.com
Start: 10:00am
10:35am
Eastwick station
creek (1889)
inspect satellite imagery of this area
below Platt Bridge
Ferry Road & Riverbank Road



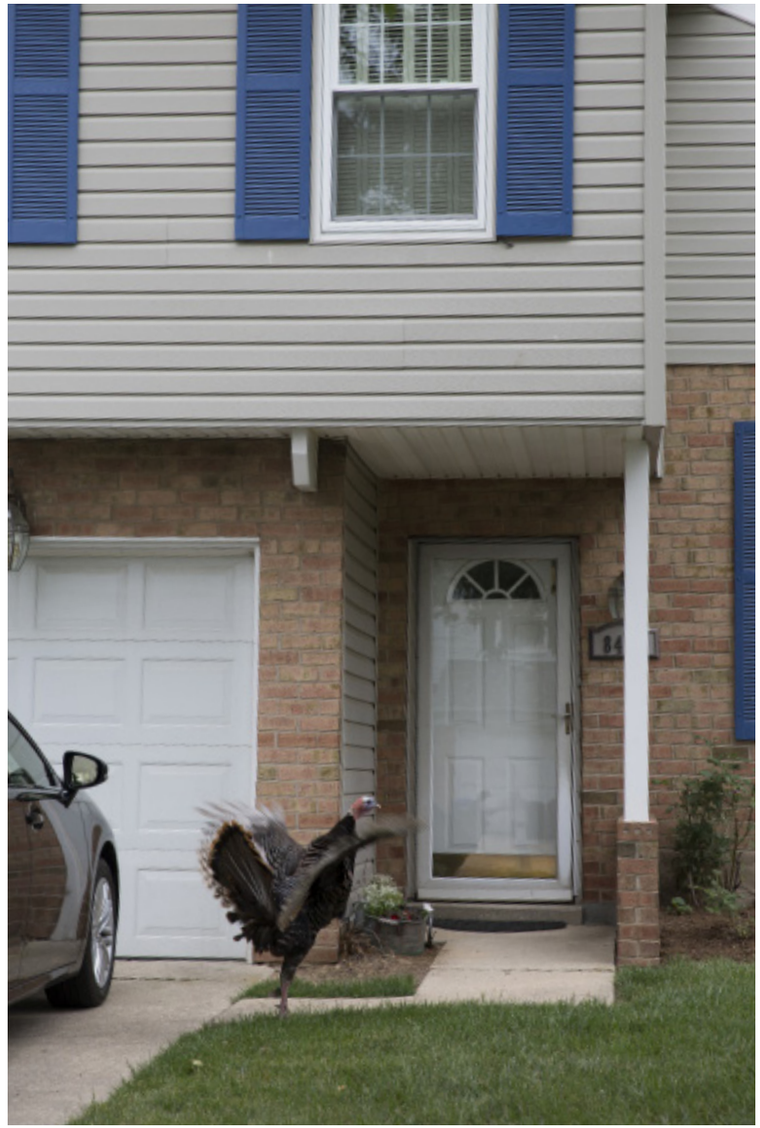









Warning!
Hidden
CAMERAS
ARROUND!












CLIPPER SHIP-1851
FLYING CLOUD








YO!
215-685-6300




John Heinz
National Wildlife
Refuge at
Tinicum






















Juicy Juice


AAA






















NO
TRESPASSING
DANGER
DEEP WATER
LEM PRODUCTS, INC.
800-220-5400




ATENCION
OLEODUCTO
DE PETROLEO
WARNING
PETROLEUM
PIPELINE


Philadelphia
Water Department
BIOSOLIDS
RECYCLIN
CENTER
7800 PENROSE FERRY ROAD
PHILADELPHIA PA 19153
PLANT ENTRANCE






DEFEND
YOU LOVE




















WELCOME
TO
JOHN HEINZ NATIONAL WILDLIFE REFUGE
AT TINICUM
This 6/10 mile wheelchair accessible nature trail loop, which includes a boardwalk, viewing deck and scopes, was made available through the generous support of the Friends of the Heinz Refuge (FOHR). We invite you to reconnect your family with nature, while exploring your National Wildlife Refuge System.... where wildlife comes naturally.





June 28, 2018

SCHUYLKILL RIVER RIVERBANKS

Led by PPEH Artist-in-Residence

JACOB RIVKEN


New Recording 2
00:02.80
Record






PLMX 135101










28
30
32


schuylkill banks
MAINTENANCE SHED
TRIGEN
river















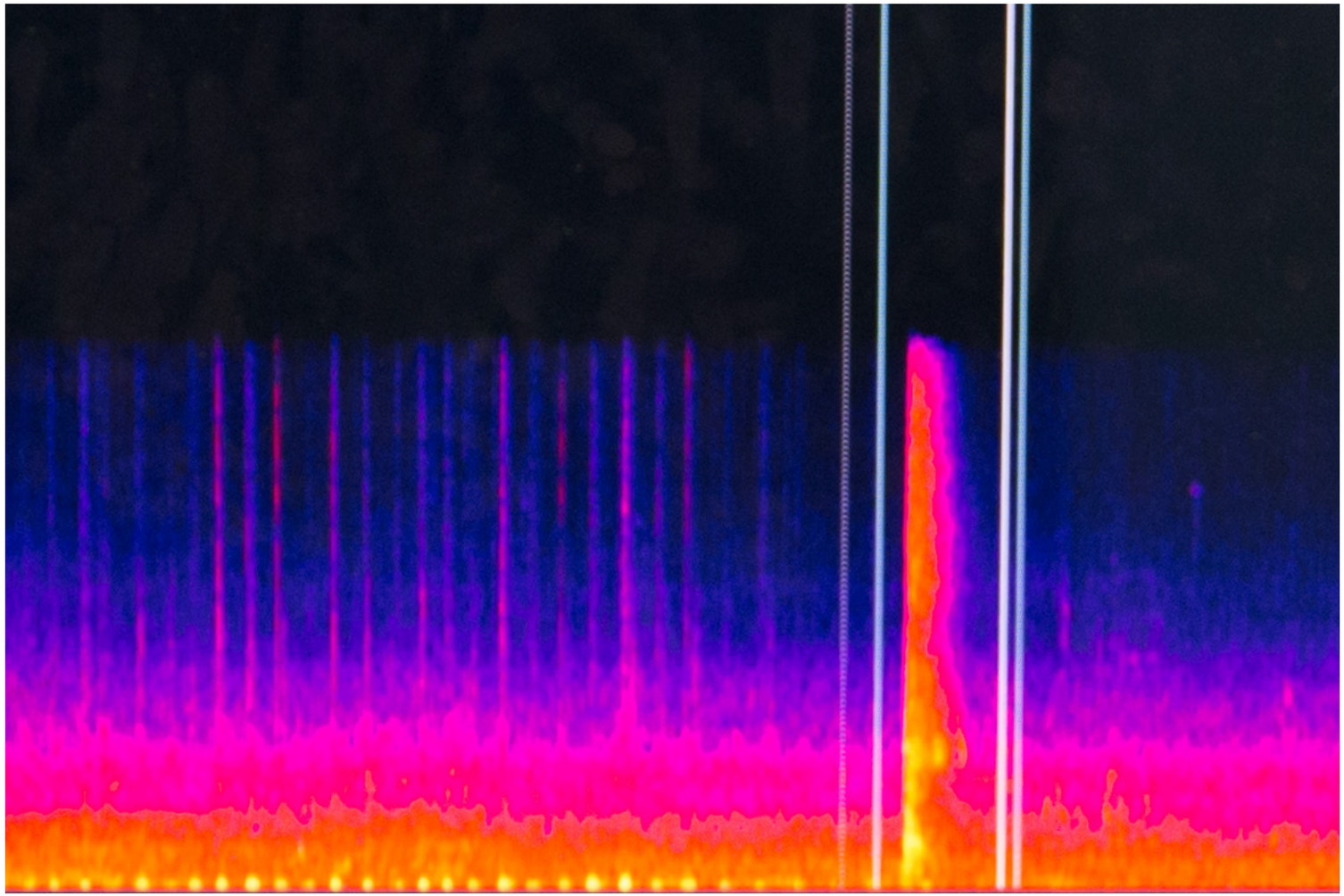

LOCK HAVEN
TRACK & FIELD



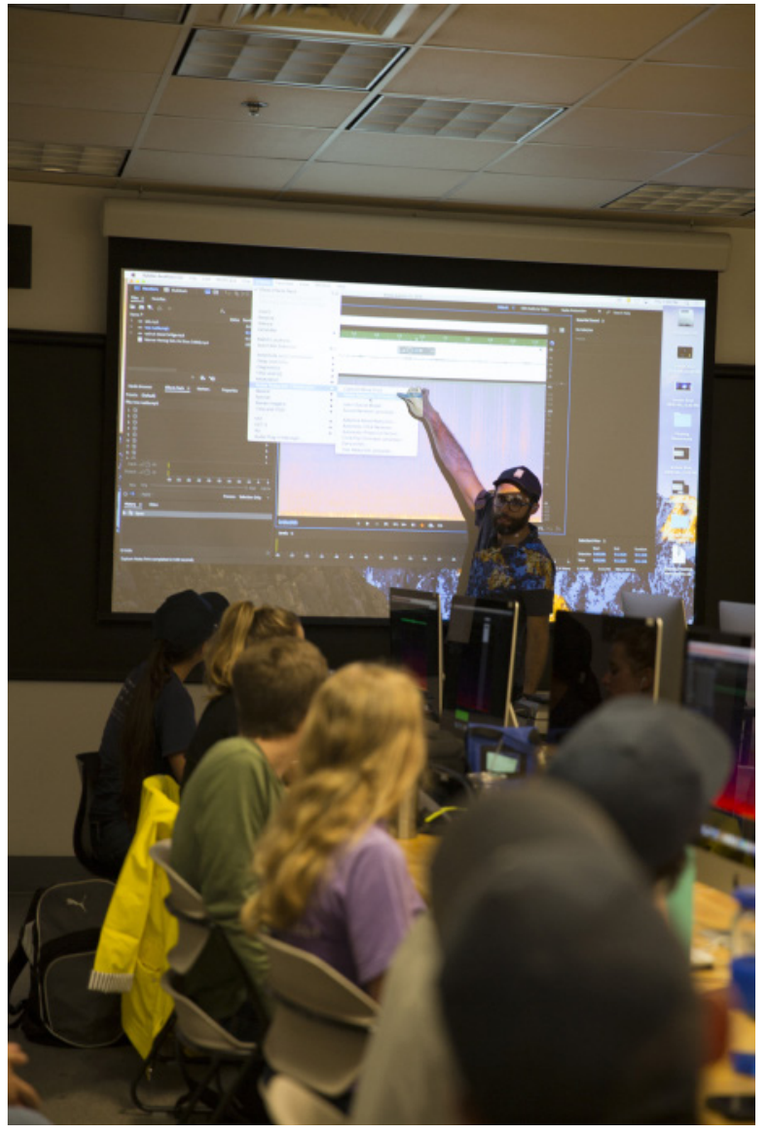






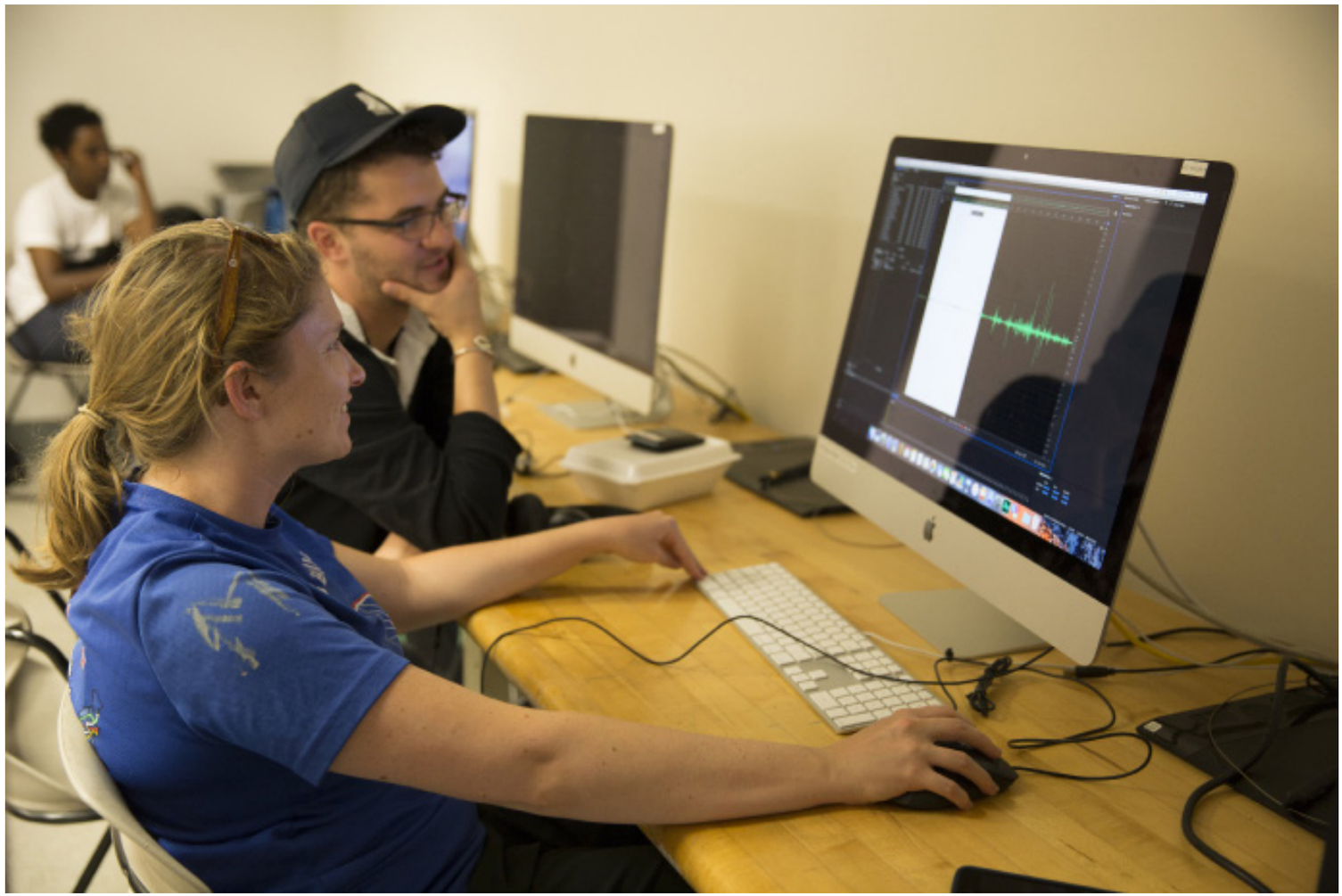



Master
Read
Track 2
+0
M S R
R100
Default Stereo Input
Master
Read
Track 3
+0
0
Default Stereo Input
Master














LOCK HAVEN
TRACK & FIELD

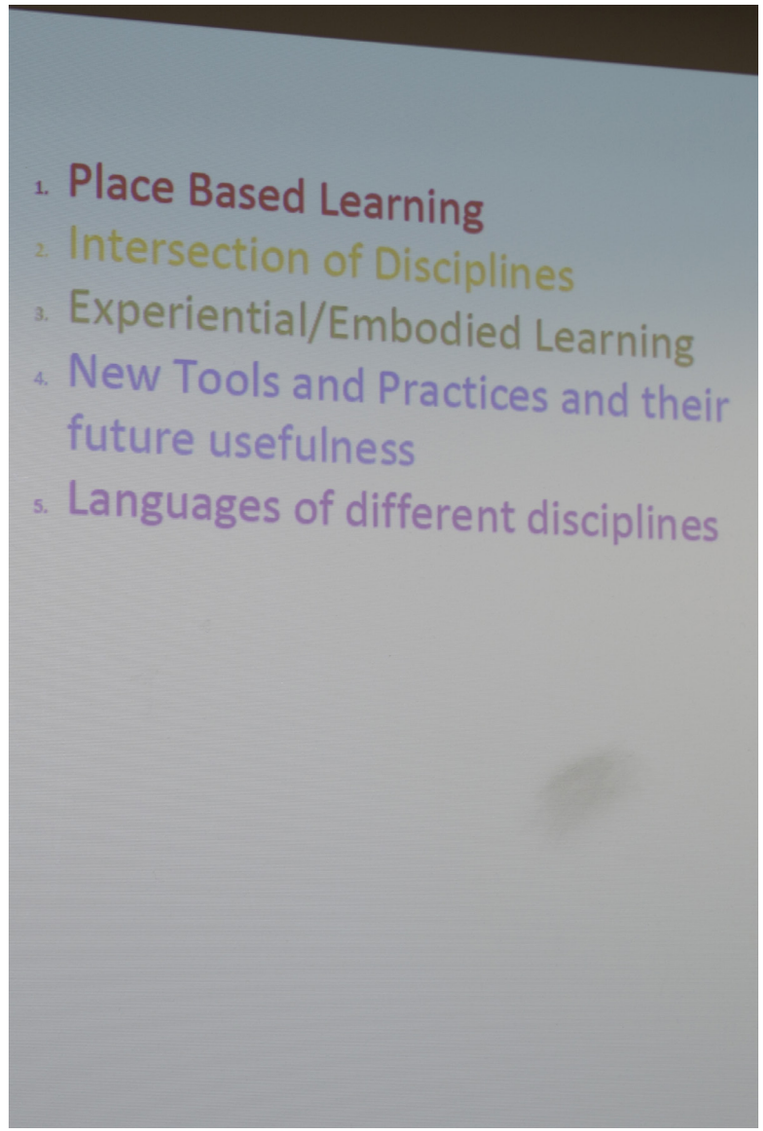
June 29, 2018

PENN'S VAN PELT LIBRARY SEMINAR ROOM

Facilitated by

PETE DECARLO



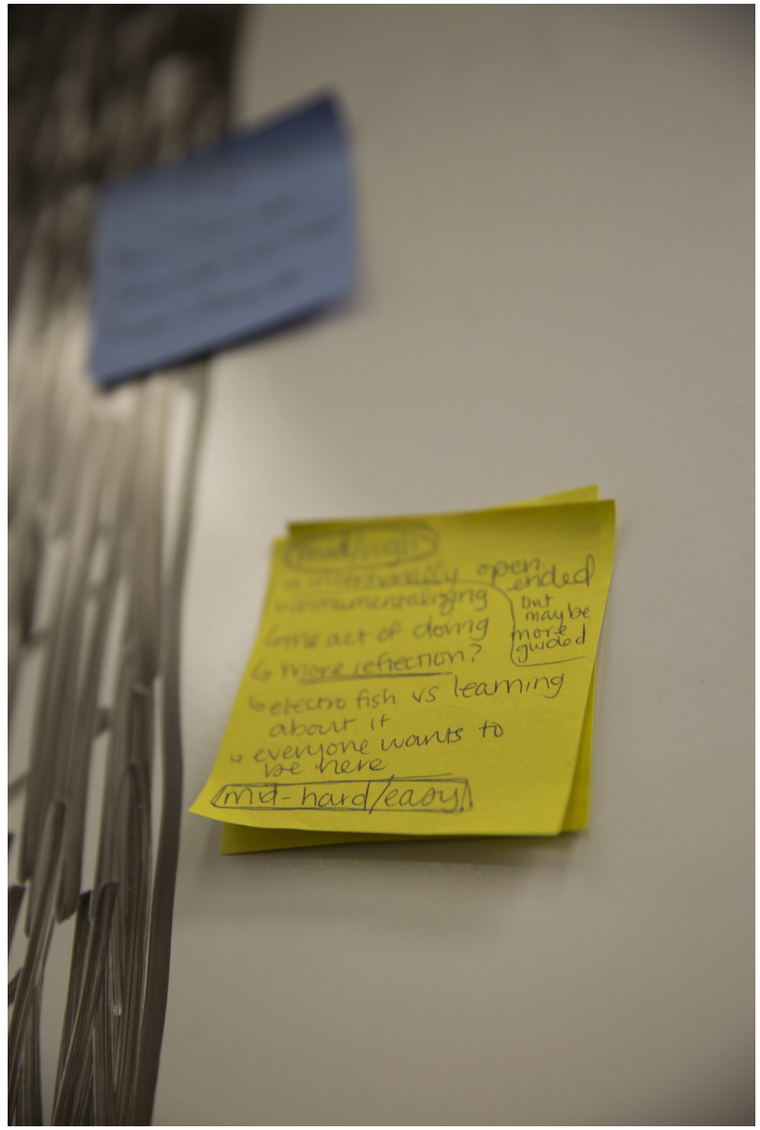

1. Place Based Learning
2. Intersection of Disciplines
3. Experiential/Embodied Learning
4. New Tools and Practices and their future usefulness
5. Languages of different disciplines

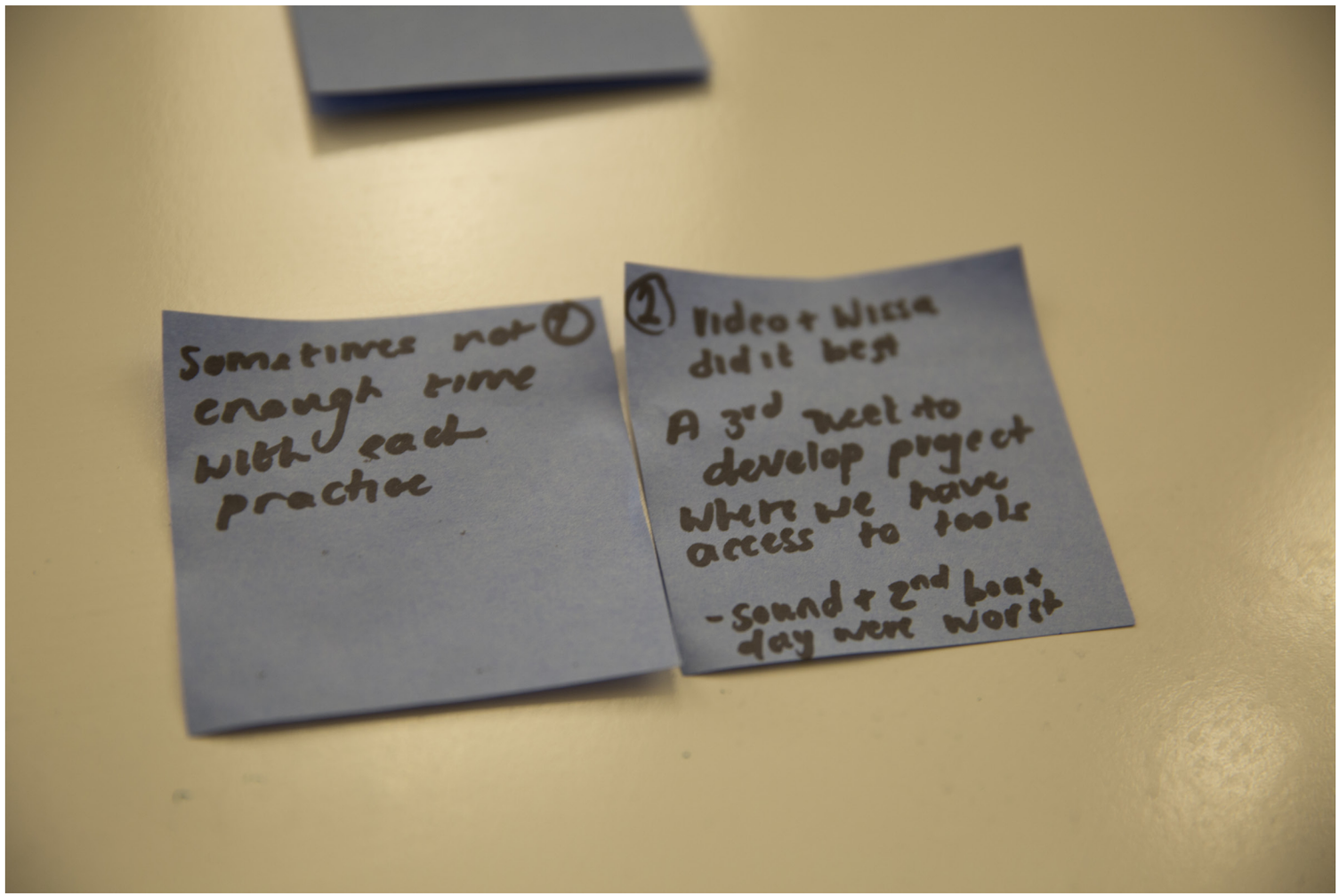



EA
S


HIGH
HARD




open ended
but may be more guided
more reflection?
electro fish vs learning about it
everyone wants to be here
mid-hard/easy!

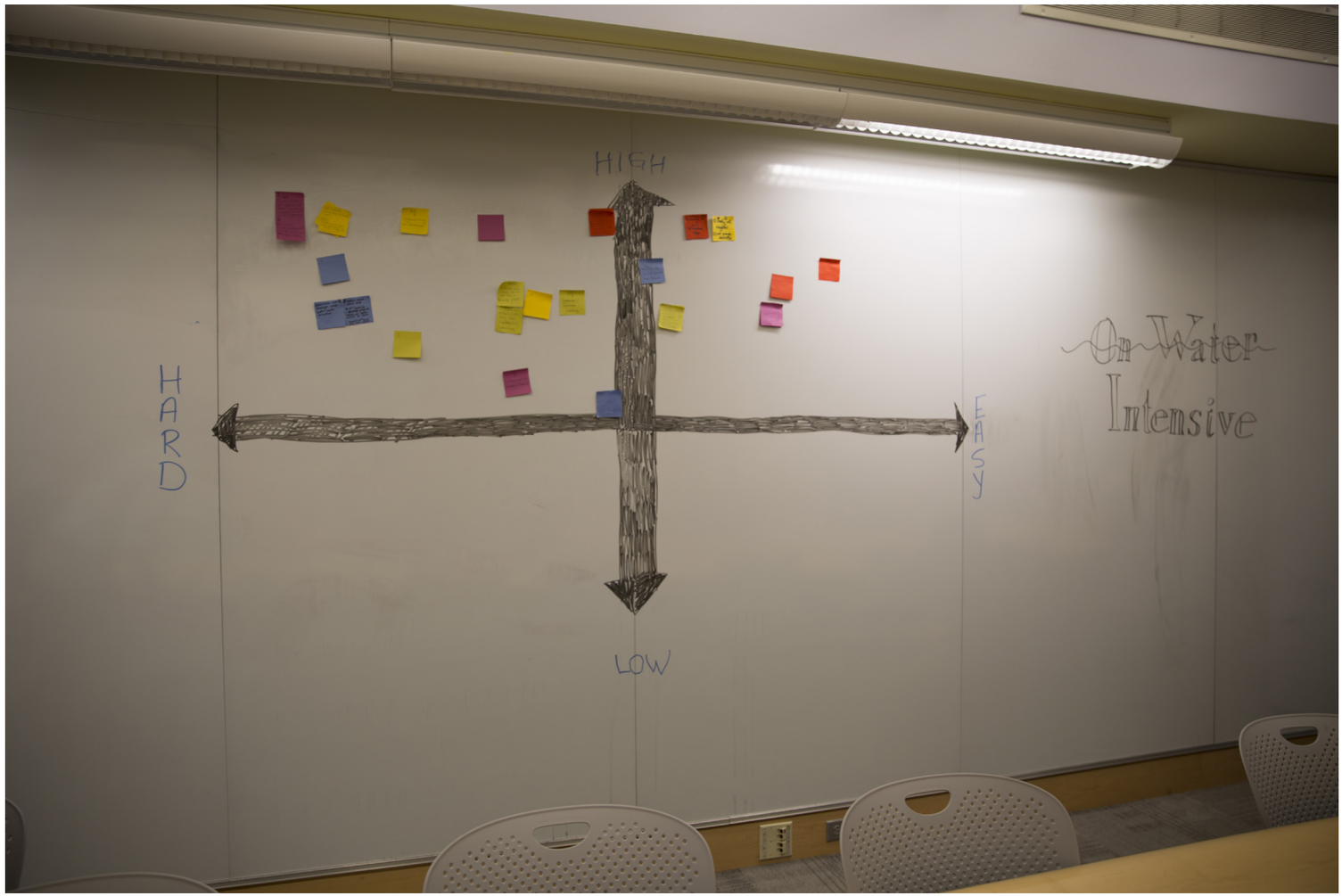

Sometimes not enough time with each practice
1
2
Video + Wissa did it best
A 3rd week to develop project where we have access to tools
- Sound + 2nd boat day were worst

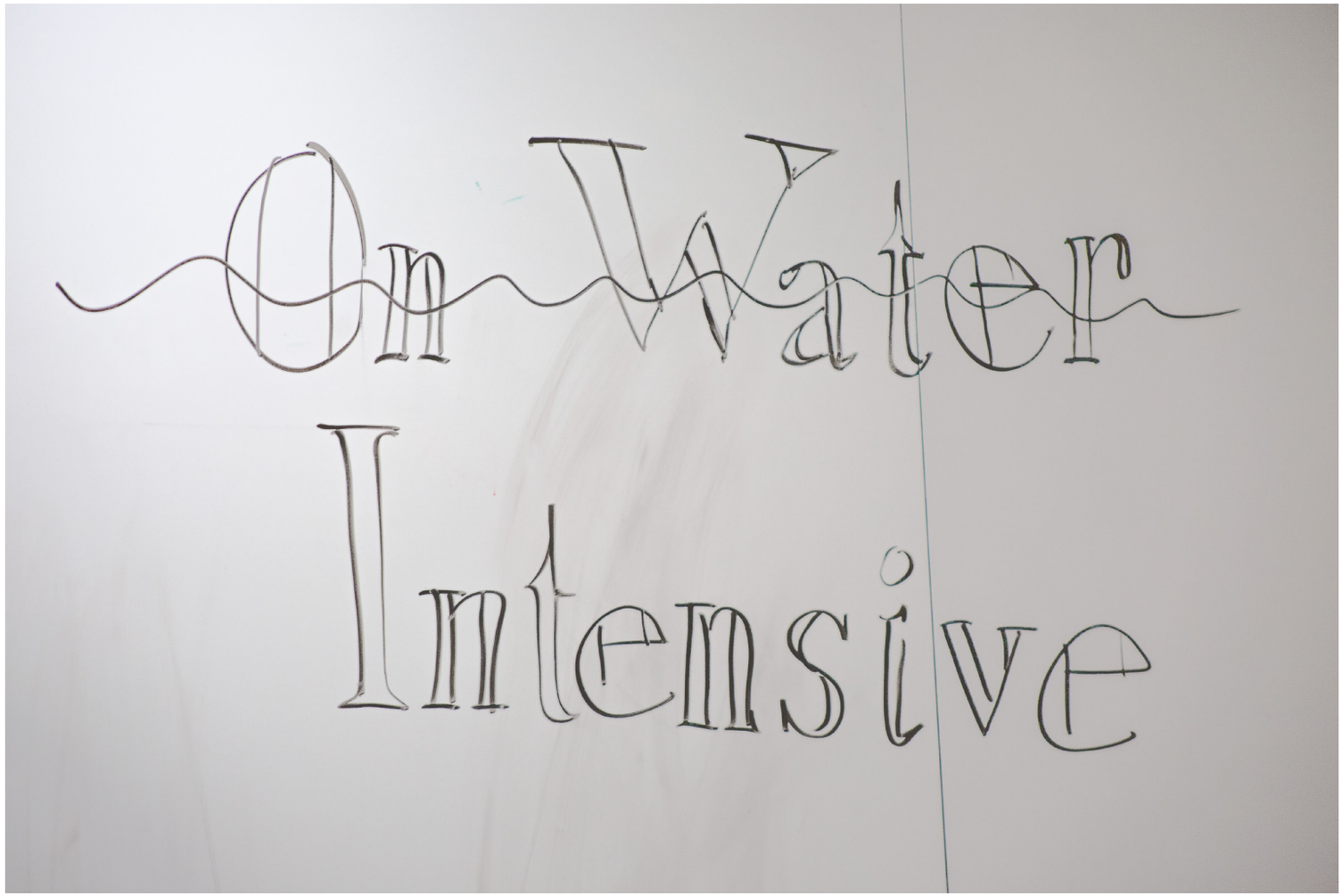





R
D




HIGH
HARD
EASY
LOW
On Water
Intensive


On Water
Intensive



