



DC Art Science Evening Rendezvous

Exploring the Intersection of Research,
Innovation, and Social Engagement

OCTOBER 2017



EcoArt

The D.C. Art Science Evening Rendezvous (DASER) is a discussion forum organized by Cultural Programs of the National Academy of Sciences (CPNAS), held 4-6 times annually. DASER fosters community and conversation around the intersections, and interweaving, of art, science, and culture. DASER is part of a larger international network of cross disciplinary salons called Leonardo Art Science Evening Rendezvous that are fostered by Leonardo: The International Society of Art, Science, and Technology. There are now close to 30 similar salons that are part of this growing network. On October 26, 2017, CPNAS focused on the role of art in conversation with ecoscience. Speakers were Andrew Quitmeyer, Steve Miller, Bryan "Ibrahim" Goodwin, and Eve Mosher (see page 4 for biographies). The discussion was moderated by JD Talasek. We welcomed 150 guests to the sold out event which was framed around Steve Miller's exhibition on view in the West Gallery, Health of the Planet (curated by Alana Quinn). The program was live-streamed and a recording is available on the NAS account at <https://livestream.com/NASEM/oct2017daser>. Videos of the presentations are available on CPNAS' YouTube channel at: <http://www.YouTube.com/CPNAS>



The National Academies of
SCIENCES • ENGINEERING • MEDICINE



PROGRAM HIGHLIGHTS

National Academies Keck *Futures* Initiative Alumnus Andrew Quitmeyer kicked off the evening with a discussion about wearable and mobile laboratories that let artists, designers, and biologists create their own tools in diverse environments. His talk, *Hiking Hacks: Wearable Studios and Biocrafting in the Wild*, addressed the idea that digital interactive technology holds great potential for experimenting with and understanding wild animals and plants. Traditional ways of designing technology, however, pull field biologists out of nature and into the lab.



him” Goodwin talked about protecting the Anacostia watershed through citizen science. Here in DC’s Anacostia watershed, EPA scientists and the Earth Conservation Corps (ECC) are working together as part of the Anacostia Watershed Outreach and Education Initiative. They are encouraging citizen science field research with ECC members, students and others. They test for water quality parameters like pH, temperature, dissolved oxygen, turbidity, phosphates, nitrates, salinity, and they



Artist Steve Miller discussed his exhibition, *Health of the Planet*, on view at the NAS. On a trip to Brazil in 2005, fascinated by the beauty, biodiversity, and environmental challenges facing the country’s tropical environment, Miller began to conceptualize much of the artwork featured in the exhibition and larger series. On subsequent visits, he created x-rays of rainforest flora and fauna, with which he is giving the “lungs of the planet” a metaphorical checkup. He incorporates these x-rays into an unconventional range of media including paintings, prints, glass sculptures, and surfboards. Surfboards are an iconic symbol of Brazilian culture and by printing x-rays of fauna onto them he has created an “eco-trophy” to replace the classic, environmentally-depleting taxidermy trophy. His paintings also include satellite remote sensing imagery of land use and deforestation in the Amazon which he obtained from Woods Hole Research Center on Cape Cod. Local scientist, community leader and teacher, Bryan “Ibra-



are analyzing samples for aquatic macroinvertebrates (water bugs one can see with the naked eye that are important indicators of water quality).



Eve Mosher wrapped up the presentations with a talk about her work and the act of engaging through creativity. Mosher shared tools and tactics for utilizing creativity as a means to build and engage communities. Mosher is an artist and interventionist living and working in New York City. Her works use investigations of the landscape as starting points for audience exploration of urban

issues. Recent work examines the complex urban waterways and utilizes creativity to explore future challenges and opportunities through collaboration with communities and professional practitioners.

CAN I QUOTE YOU? Audience Responses



THE REASON I ATTENDED:

ASL interpretation was provided; and the topic of art in sciences intrigued me.

I came to hear Andy Quitmeyer. He was terrific!

I WOULD COME BACK BECAUSE:

It is accessible to me as a deaf person.

The topics are fascinating and important. The panelists are interesting.

I never know what I'll find!

I DIDN'T ANTICIPATE:

The beautiful building! I didn't know about this wonderful building and the collection it holds, and I am already planning another visit to explore the collection.

I was given 30 seconds to introduce myself. I liked this because the audience feels more integrated with the discussion.

THE SPEAKER NAILED IT WHEN:

I enjoyed how the forum was directed by J D Talasek.

When she said that art and science are collaborative activities.

#DASER Social Media Highlights

There was lively Twitter and Instagram activity during the DASER program.

@cpnas: @benbendc announces that he will be running a Sackler Colloquium at NAS on March 13-14, 2018, "Revisiting Cybernetic Serendipity." #DASER

@gkygirlengineer: @HikingHack is talking about bringing technology into field to study animals better than in lab #DASER

@gkygirlengineer: "Premade boat labs or as you might know them, ships" #DASER

@aquinsta: Fabulous crowd tonight at #DASER on EcoArt with @hikinghack @SteveMillerArt @evemosher!

@gkygirlengineer: X-rays of fruit inspired @SteveMillerArt Health of the Planet #DASER

@gkygirlengineer: "Engagement alone is not affective and creativity alone is not effective" - Eve Mosher #DASER



@aquinsta: @evemosher invited us to share a story relating to the beach. My story was about my family & @elpeanoh's was about sand castles. #DASER

@drdarsci: @evemosher posits the Star Trek effect- when art imagines something that inspires science to make. Shades of @SciEntEx chatter! #DASER

@gkygirlengineer: Ok I think @hikinghack and @SteveMillerArt should get together and design an X-ray machine in a backpack to X-ray fruit in the field #DASER

@drdarsci: Artist @SteveMillerArt Brasil project to use animal x-rays sparked collaboration between zoos and radiologists. Art makes science #daser

@drdarsci: Epic fail: @HikingHack found that taking an Alaskan engineer on a jungle hike equals said engineer leaving for the airport on day 1 #daser

Read the complete social media Wakelet archive: <https://wakelet.com/wake/8ffddaa6-5767-41cf-af4e-d36347422d4f>



SPEAKER BIOGRAPHIES

Andrew Quitmeyer is a hacker / adventurer studying intersections between wild animals and computational devices. He is a professor in the Communications and New Media Department at the National University of Singapore. His academic research in “Digital Naturalism” at the National University of Singapore blends biological fieldwork and DIY digital crafting. This work has taken him through international wildernesses where he’s run workshops with diverse groups of scientists, artists, designers, and engineers. He runs “Hiking Hacks” around the world where participants build technology entirely in the wild for interacting with nature. His research also inspired a spinoff television series he hosted for Discovery Networks called “Hacking the Wild.”



Steve Miller is an artist whose work includes paintings, prints, photographs, and sculptures. Through his art he explores the influence of science and technology on modern culture and he was an early pioneer of the sciart movement. He has been using scientific technology and exploring scientific concepts in his art since the early 1980s, including electron microscope imagery, MRI, X-Rays, DNA analysis. In 2013, we exhibited his “Crossing the Line” paintings about human proteins. It was the result of his collaboration with NAS Member Rod Mackinnon who won the 2003 Nobel Laureate in Chemistry. Steve has spent time at Brookhaven National Labs as well as CERN where he lectured to the Theory Group on how scientific advancements cause changes in consciousness. His

exhibition, *Health of the Planet*, about deforestation in the Amazon, is currently on view in our West Gallery and you will have a chance to see it during the reception tonight. Steve will be signing copies of his book, *Radiographic*, during tonight’s reception.

Bryan “Ibrahim” Goodwin has worked in the Office of Water as an Environmental Scientist since 1987. Mr. Goodwin has helped to train thousands of environmental professionals in the Water Quality Standards Academy and is currently working on initiatives to engage citizen scientists. He received a B.S. in Geology from Howard University and is an urban gardener.

Eve Mosher is an artist and interventionist living and working in New York City. Her works use investigations of the landscape as starting points for audience exploration of urban issues. Recent work examines the complex urban waterways and utilizes creativity to explore future challenges and opportunities through creative collaboration with communities and professional practitioners. She is a co-founder of Works on Water, a cultural institution dedicated to supporting artists working on, in and with bodies of water and play:groundNYC, a 50,000 sf junk playground on Governors Island. Her work has been performed and shown across the US, Europe, the UK, Korea and Australia and has been profiled in international media including the *The New Yorker*, *New York Times*, *ABC Nightly News*, *The Guardian*, *WHYY Public Radio*, *ARTnews*, *New Scientist*, *Miami Herald*, *American Scientist*, and *Le Monde*. Her public and community based artworks have received grants from New York State Council on the Arts and New York Department of Cultural Affairs, through the Brooklyn Arts Council, and The City Parks Foundation. Collaborative work has received support from The Kresge Foundation, The Compton Foundation, The Whitman Foundation, and Invoking the Pause.

LIVESTREAM WEBCAST REPORT

Live Overview

Filters

Time: from 10/12/2017, 12:34 PM to 11/09/2017, 12:34 PM

Timezone: (GMT-04:00) Eastern Time

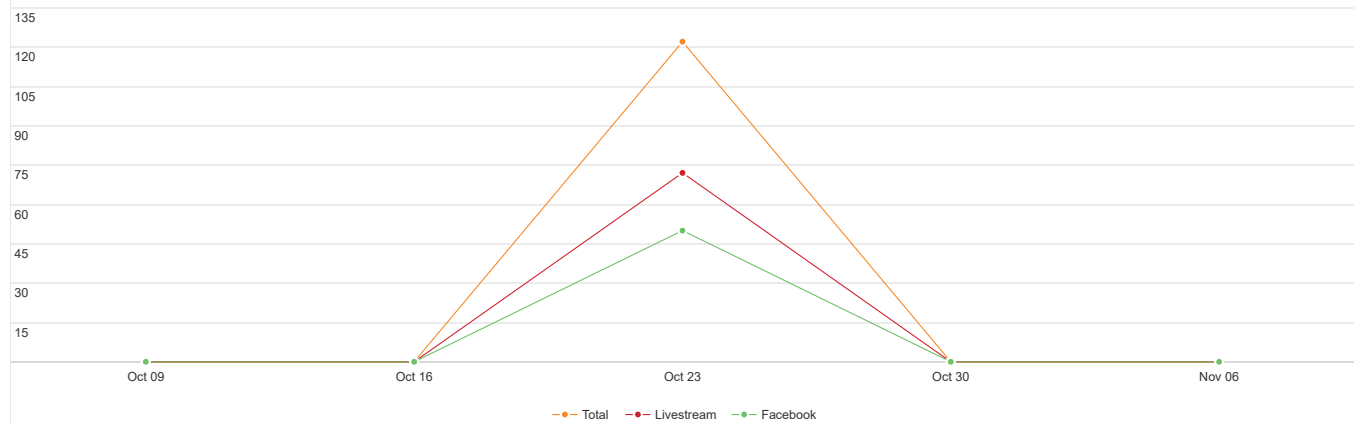
Event: DASER - October 2017

Destination: All Destinations

Live Viewers

Total Live Views	Livestream Views	FB Live Views
122	72	50

Total Views



Livestream	28 days, 1 hour
Total Live Views	72
Unique Live Views	49
Total Minutes Viewed	856
Average Watch Time	00 : 14 : 46

Facebook Live	28 days, 1 hour
Total Live Views	50
Unique Live Views	48
Total Minutes Viewed	182
Average Watch Time	00 : 03 : 39

TWITTER REPORT

TWEETREACH SNAPSHOT FOR

DASER

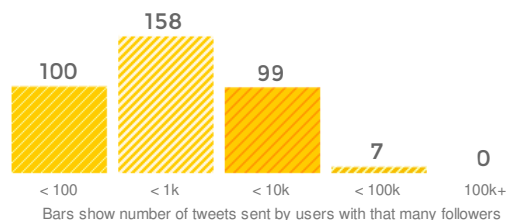
ESTIMATED REACH

214,970

ACCOUNTS REACHED

EXPOSURE

912,331

 IMPRESSIONS

ACTIVITY

364

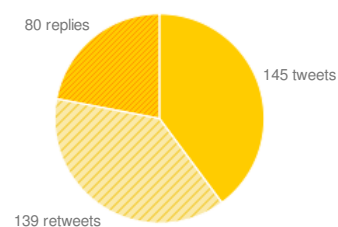
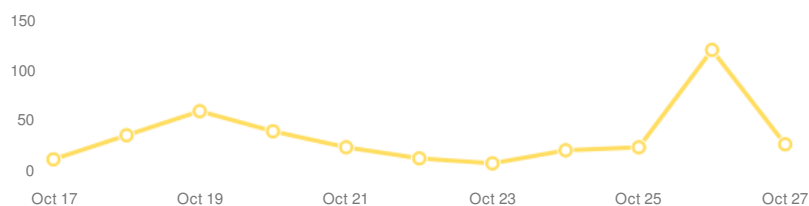
TWEETS

102

CONTRIBUTORS

11

DAYS



TOP CONTRIBUTORS

260.3k

IMPRESSIONS



@CPNAS

52

RETWEETS



@CPNAS

69

MENTIONS



@CPNAS

MOST RETWEETED TWEETS

10



CPNAS @CPNAS
Reserve a spot at tomorrow's #DASER on EcoArt!
@SteveMillerArt @HikingHack @evemosher & Ibrahim
Goodwin.... twitter.com/i/web/status/9...

7



Ayeng @fazrulazril
Yela yela main game ni agenda yahudi israel
laknatullah. Tinggal jela semua yg main game yer yer
tinggal. Daser gob... twitter.com/i/web/status/9...

6



rima @softjined
Gue cape sm yg ginian tai daser kalian kerak nasi yg
tertinggal <https://t.co/xlOuUxRW7m>

PHOTO CREDITS

Page 1: Left to right, images courtesy Andrew Quitmeyer, Steve Miller, and Eve Mosher. Pages 2-4: All photos by Kevin Allen Photo.