



Provost's Lunch Discussion Series February 13: STEAM Projects

Kean Hall

Room 127

Tuesday, February 13, 2018
12:00 - 1:30 PM

*Bring your lunch—drinks and
dessert will be provided*

On Tuesday, February 13, the Provost will host a brown bag lunch discussion exploring possibilities for projects that bring together STEM with the Arts, Education, and the Humanities and create new models for innovation.

The session will include examples of STEAM projects at Kean University and elsewhere, as well as external funding opportunities and a new campus-wide STEAM initiative to foster interdisciplinary collaboration.



Handout material prepared by...

Feng Qi (Faculty-SESS) and Paul Croft (Assoc-VPAA)

Today's Agenda/Plan

Where we've been...

- ArtSCAPES program as a beginning
- Reaching out to expand experiences
- Next steps: Research

Where we're headed...

- STEAM Themes
- Conceptual designs
- Creating partnerships and developing SOW

ArtSCAPES

Art in Science, Climate and Adaptation:
Picturing Environments and Sustainability

NOW THROUGH APRIL 26

Kean University's School of Environmental and Sustainability Sciences has partnered with Kean University Galleries to offer ArtSCAPES, a series of free campus events around the *Glacial Dimensions: Art and the Global Ice Melt* exhibition at the Karl and Helen Burger Gallery. A first-time collaboration between Philadelphia artists who have traveled the world with scientists monitoring the shrinking ice, the exhibit features Diane Burko's large-scale photographs and Paula Winokur's white porcelain sculptures.



KEAN



Explore the science behind climate change with SESS. *ArtSCAPES, or Art in Science, Climate and Adaptation: Picturing Environments and Sustainability*, includes film screenings, panel discussions, a Power Dialog and lectures by artists and scientists exploring natural resources, hydrology of the planet and atmosphere, sustainability and human rights and responsibilities for addressing critical environmental issues that affect our planet and our lives.

Glacial Dimensions: Art and the Global Ice Melt

Now through April 26 • Monday-Friday, 10 a.m.-4:30 p.m.
Karl and Helen Burger Gallery (CAS)

Chasing Ice film screening and gallery talk

February 16, 3:30-5 p.m. • Center for Academic Success 106
A film about the Extreme Ice Survey, a multiyear chronicle of the planet's rapidly melting glaciers, followed by a gallery talk by Neil Tetkowski, director of University Galleries, and a tour of the exhibition.

Antarctic Edge: 70° South film screening and discussion

March 17, 3:15-5 p.m. • Miron Student Center Little Theatre
A film about a renowned team of scientists studying climate change in the fastest winter-warming place in the world, followed by a discussion with director Dena Seidel.

Climate Change and El Niño

March 29, 3:15-4:15 p.m. • Hennings Hall 113
Dr. Paul Croft of SESS provides an in-depth look at the ongoing effects of El Niño.

Power Dialog

April 4-8 • Trenton
Join college students across the country in an effort to engage in face-to-face dialog with state-level lawmakers to encourage the implementation of the Clean Power Plan, requiring a 32% decrease in global warming pollution by 2030.

Glacial Dimensions Artists' Reception

April 12, 5 p.m. • Karl and Helen Burger Gallery (CAS)
Meet and greet *Glacial Dimensions* artists Diane Burko and Paula Winokur.

ArtSCAPES Mini-Symposium and SESS Poster Session

April 13, 9 a.m.-Noon • Miron Student Center Little Theatre

The Artists' Perspective

9 a.m.

Glacial Dimensions artists Diane Burko and Paula Winokur share their experiences of creating art and traveling with scientists monitoring climate change around the world.

Water Access and Transfer: Equalizing Resources under Climate Change Scenarios

10 a.m.-Noon

Glacial Dimensions artists Diane Burko and Paula Winokur, *Antarctic Edge: 70° South* director Dena Seidel, NASA scientist Ben Cook, oceanographer Josh Kohut, and human rights advocate Greg Hittelman of the Enough Project discuss resources, hydrology, sustainability, art and environmental justice.

Earth Week Fair

April 19-22 • Miron Student Center
Explore environmental displays, interactive exhibits and informative workshops and join the Elizabeth River Cleanup.

CONTACT:
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Join us for a Free Film Screening
and Discussion with the Film Director



*A renowned team of scientists studying climate change in the fastest winter-warming place in the world, followed by a discussion with director **Dena Seidel**.*



**Collaborative – Innovative – Experiential
Research and Project Possibilities**



ArtSCAPES

Art in Science, Climate and Adaptation:
Picturing Environments and Sustainability

Lecture and Panel Discussion

9:00 – 10:00 Artists Lecture: Glacial Dimensions – Art and the Global Ice Melt,
by [Diane Burko](#) and [Paula Winokur](#)

10:00-12:00 Panel Discussion: Water Access & Transfer: Equalizing Resources
under Climate Change Scenarios

Panelists



Diane Burko. Photographer and Painter based in Philadelphia. Focus has been on monumental geological phenomena. Work from her recent expeditions to Greenland, Patagonia and Antarctica are currently exhibited at the Kean University Burger Gallery.



Dr. Benjamin Cook. Climate scientist at the NASA Institute for Space Studies and Columbia University in NYC. His work specializes in the study of drought dynamics and climate change using observations of the past thousand years and computer simulations of the climate system.



Greg Hittelman. Director of Communications at the Enough Project, an atrocity prevention policy group that seeks to build leverage for peace and justice in Africa by helping to create real consequences for the perpetrators and facilitators of genocide and other mass atrocities.



Dr. Josh Kohut. Oceanographer at Rutgers University. He utilizes ocean observing technologies including satellites, high-frequency radar, and underwater gliding robots as part of a research program that applies ocean observations to research and decision making.



Paula Winokur. Sculpturer based in Philadelphia and professor emerita of Arcadia University. Her work inspired by geology: cliffs/canyons and currently glaciers and icebergs encourages the viewer to respond to climate change and the ways it is impacting our environment.

Co-moderators

Michael Favetta. Two time NY Emmy Award Winning Meteorologist of News12. Graduate of Kean University. Member of the American Meteorological Society.

Lisa Mateo. Two time Emmy nominated reporter and co-anchor for the PIX 11 Morning News and Host of "Celebrity Taste Makers". Lisa attended Kean University for post graduate studies.



Apr. 13 • Little Theatre
Miron Student Center



THE SOURCE

from  charity: water x  aLoka!

 HUMAN RIGHTS
INSTITUTE
Center for Interdisciplinary Studies

 **SESS**

School of Environmental and Sustainability Sciences

VIRTUAL REALITY EXPERIENCE
MIRON STUDENT CENTER
MARCH 21 – 23
10 A.M. – 3 P.M.

**Curricular – Provocative – Interdisciplinary
Research and Project Possibilities**



The Human Rights Institute, Interdisciplinary Studies and the School of
Environmental and Sustainability Science



KEAN

[Kean Students to Ethiopia | Virtual Reality Experience](#)

Takes Students to Ethiopia
Virtual Reality Experience

Multi-/Inter-/Trans-disciplinary Research

Environmental perception and the development of “topophilia” as alternative therapy for mental health: A preliminary study on nature’s cure of stress and anxiety with the Kean University Highlands



Disciplines

- Environmental Science
- Computer Science
- Psychology
- Nursing
- Art

Multi-/Inter-/Trans-disciplinary Research

Climate History of New Jersey



CASTLES: Climate History

Climate Change History Assessments of
Nascent Global Environments in New Jersey

Student Panelists

Davina Campbell-Washington

Blair Gomes

Naomi Horowitz

Arnoldo Larasiria

David Olivo

Alison Tulli



CASTLES Faculty: Paul J. Croft, Kikombo Ngoy, and Feng Qi

Traditional and Contemporary...

- Climate by location (e.g., HCN)
- Datasets of 100 or more years
- Temperature and Precipitation

Alternative: “Proxies”

- Landscape changes and water flow
- Plants as natural integrators
- Climate “lived” by Society
- Impacts and scenarios
- *Use Scientific Techniques/Artifacts*

www.linkedin.com/pub/paul-j-croft/12/713/aba/
https://www.researchgate.net/profile/Paul_Croft2/

STEAM Themes

Conceptualization

- Your discipline & “boundaries”
- Two disciplines of interest, outside of your college
- Using existing models, samples, links; <https://www.sciartmagazine.com/> such as <http://www.sciartmagazine.com/auguststeam2017contents.html> and <http://www.sciartmagazine.com/steam-a-hothouse-for-lifelong-creativity.html>
- Other examples: Witness Tree Project, Marco Giamello geologist restoration (“David”)



Creating Opportunities

- Students: LSAMP, McNair,...
- Faculty: Across Colleges Team
- <https://www.sciartcenter.org/the-bridge.html>
- Kean “CAVE” Competition
- Kean Research First Initiative
- Others...