



COOL SCIENCE NATIONAL SHOWCASE

APRIL 25-26, 2024 | BOSTON, MASSACHUSETTS
www.coolscience.net



KANSAS CITY ART INSTITUTE

COOL SCIENCE TEAM MEMBERS

Bob Chen, University of Massachusetts Boston
Jill Hendrickson Lohmeier, University of Massachusetts Lowell
Steven Schrock, University of Kansas
Stephen Mishol, University of Massachusetts Lowell
Lois Hetland, Massachusetts College of Art and Design
Shanna Rose Thompson, University of Massachusetts Lowell
Kimberly Starbuck, Urban Harbors Institute, University of Massachusetts Boston
Kevin Townsend, Kansas City Art Institute
Irene Goodman, Goodman Research Group, Inc.
Karen Gareis, Goodman Research Group, Inc.

ADVISORY COMMITTEE MEMBERS

Julie Benyo, Education Consultant
Linda Cabot, Bow Seat Ocean Awareness Programs
Lynn Dierking, Oregon State University
Connie Roser-Reouf, George Mason University
Rick Wilson, Texas State University

FUNDER

National Science Foundation

IN MEMORY OF



David Lustick was an Associate Professor of Science Education at the University of Massachusetts, Lowell, a 2015 White House Champion of Change awardee, and a long-time National Science Foundation Advancing Informal STEM Learning (AISL) program Principal Investigator. David's pioneering work to bring science awareness and learning into the public sphere using out-of-home media achieved impressive impacts. David and his colleagues also achieved wide recognition throughout Massachusetts and the national informal STEM education community via Cool Science and ScienceToGo.org projects. David was a renaissance person with many talents, and the Cool Science community miss him dearly.

Welcome!

It is with great pleasure that we have all gathered for the 2024 Cool Science National Showcase. We want to thank all attendees for joining us to share projects that blend art and science and involve youth.

Cool Science is a collaborative project funded by the National Science Foundation (2019-2024) aimed at educating students, teachers, parents, and the general public about extreme weather science. Since its inception in 2012, Cool Science has been utilizing youth artwork to promote interdisciplinary learning and inspire social and behavioral changes that lead to more sustainable living.

Each year, Cool Science hosts a K-12 art competition where youth develop posters that teach extreme weather science. Winning artwork is displayed on local buses in Massachusetts, Kansas, and Missouri with the intent of educating riders on pressing environmental issues. Riders are surveyed before and after artwork is displayed on the buses to determine the impact of the artwork messaging.

Additionally, Cool Science has organized projects in partner communities to expand our impact and target more diverse audiences. Specifically, Cool Science worked with youth to design and install 1) birdhouses that are resilient to extreme weather, and 2) a colorful mural about biodiversity and sea level rise. These projects exist as stand-alone artwork with messaging aimed at fostering intergenerational learning.

Through the Cool Science National Showcase, we are excited for participants to 1) share experiences with art, science, and youth programs, and 2) develop new initiatives and bring them to scale. Thank you all for coming!

Sincerely,

Bob Chen, UMass Boston, Cool Science Principal Investigator

Jill Hendrickson Lohmeier, UMass Lowell, Cool Science Principal Investigator

Steven Schrock, University of Kansas, Cool Science Principal Investigator

SHOWCASE AGENDA

Day 1: Thursday, April 25, 2024

	SCHEDULE
	OPENING SESSION Campus Center, 3rd Floor, Ballroom 3550A
8:00 a.m. - 9:00 a.m.	Registration and Breakfast
9:00 a.m. -10:00 a.m.	Cool Science: Art as a Vehicle for Intergenerational Learning <i>The Cool Science Team</i>
10:00 a.m. - 10:30 a.m.	Welcome and Introductions <i>Jill Hendrickson Lohmeier & Stephen Mishol, UMass Lowell; Lois Hetland, MassArt</i>
10:30 a.m. - 10:45 a.m.	Break
	PRESENTATIONS
	SESSION A Campus Center, 3rd Floor, Ballroom 3550A
10:45 a.m. - 11:05 a.m.	Watershed-Based Cool Science for Climate Resilience! <i>Pallavi Mande, BSC Group</i>
11:05 a.m. - 11:25 a.m.	Successes and Challenges of the Cool Science Program <i>Karen Gareis, Goodman Research Group</i>
11:25 a.m. - 11:45 a.m.	Creative Currents: Empowering Students to Create Art for a Sustainable Future <i>Jeremy Pivor & Susan Tang, Bow Seat Ocean Awareness Programs</i>
11:45 a.m. - 12:05 p.m.	Trash Talk in Action <i>Bob Alexander, Rural Livelihood Risk Management [presented for Kelvin Oyugi]</i>
	SESSION B Campus Center, 3rd Floor, Room 3540
10:45 a.m. - 11:05 a.m.	Art in Kansas Public Transportation <i>Steven Schrock, University of Kansas</i>
11:05 a.m. - 11:25 a.m.	I Was A Kid: Real-Life STEAM Pathways <i>Karen Romano Young, I Was A Kid</i>
11:25 a.m. - 11:45 a.m.	Teachers on the Estuary Workshop - "Wild Art" - Exploring NGSS - Cross Cutting Concepts through the Arts <i>Kelle Loughlin, New Hampshire Fish & Game, Great Bay National Estuarine Research Reserve</i>
11:45 a.m. - 12:05 p.m.	LEO-Light Embodied Odyssey Changing How People See Themselves and the World <i>Ian Fogarty, Riverview High School</i>

SCHEDULE	
SESSION C	Campus Center, 3rd Floor, Room 3545
10:45 a.m. - 11:05 a.m.	Art Teaches Everyone: A Mural about Sea Level Rise <i>Lois Hetland, MassArt</i>
11:05 a.m. - 11:25 a.m.	Marine Heatwaves: From Research to 3D Kinetic Sculptures <i>Caroline Ummenhofer, Woods Hole Oceanographic Institution & Deb Ehrens, Art League RI</i>
11:25 a.m. - 11:45 a.m.	College Students' Climate Change Knowledge and Engagement through Musical Intervention <i>Michelle Kaczowka, UMass Lowell</i>
11:45 a.m. - 12:05 p.m.	Discussion
	Campus Center, 3rd Floor, Ballroom 3550A
12:05 p.m. - 12:45 p.m.	Lunch
12:45 p.m. - 1:30 p.m.	Posters and Art Show
PRESENTATIONS	
SESSION D	Campus Center, 3rd Floor, Ballroom 3550A
1:30 p.m. - 1:50 p.m.	Big Art, Big Change: Engaging People in Climate Awareness and Solutions <i>Sally Warner, Brandeis University</i>
1:50 p.m. - 2:10 p.m.	Sketches for Sensorium <i>Joshua Harrison, Center for the Study of the Force Majeure</i>
2:10 p.m. - 2:30 p.m.	Accordions: Art Makes Thinking Visible <i>Lois Hetland, MassArt & Kevin Townsend, Kansas City Art Institute</i>
2:30 p.m. - 2:50 p.m.	Catalyzing New Voices for Transformational Change through Hybrid Dialogue Approaches: Tikonzekere Arts Contests in Malawi <i>Bob Alexander, Rural Livelihood Risk Management</i>
SESSION E	Campus Center, 3rd Floor, Room 3540
1:30 p.m. - 1:50 p.m.	Forms of Every Breath You Take <i>Maxim Jahns & Saberah Malik, Art League RI</i>
1:50 p.m. - 2:10 p.m.	The Synergy II Project <i>Ellen Matesanz, Ruth Clegg, & Meghan Getsinger, Art League RI</i>
2:10 p.m. - 2:30 p.m.	Swim Down: Finding Neurodivergent Identity in Depths <i>Freya Hammar, Scripps Institution of Oceanography (UCSD)</i>
2:30 p.m. - 2:50 p.m.	Building Climate Resilience through Ecological Restoration <i>Pallavi Mande, BSC Group</i>

SHOWCASE AGENDA

Day 1: Thursday, April 25, 2024

	SCHEDULE
SESSION F	Campus Center, 3rd Floor, Room 3545
1:30 p.m. - 1:50 p.m.	Arts Integration in Title 1 Schools <i>Rylee Shafer, ArtistYear AmeriCorps</i>
1:50 p.m. - 2:10 p.m.	Cool Science Art Exhibition Celebrations <i>Stephen Mishol, UMass Lowell</i>
2:10 p.m. - 2:30 p.m.	Amplifying Native Voices in Science Education <i>Cally Flox, Brenda Beyal, & Emily Soderborg Brigham Young University ARTS Partnership</i>
2:30 p.m. - 2:50 p.m.	Thriving Together: Advancing Inclusive Science Communication through Spoken-Word Poetry <i>D’Nae Hearn, Detroit Zoological Society</i>
2:50 p.m. - 3:00 p.m.	Break
	WORKSHOPS
SESSION G	Campus Center, 3rd Floor, Ballroom 3550A
3:00 p.m. - 4:00 p.m.	Project Management <i>Shanna Thompson, UMass Lowell & Kim Starbuck, UMass Boston</i>
SESSION H	Campus Center, 3rd Floor, Room 3540
3:00 p.m. - 4:00 p.m.	Funding <i>Bob Chen, UMass Boston</i>
SESSION I	Campus Center, 3rd Floor, Room 3545
3:00 p.m. - 4:00 p.m.	Evaluation <i>Jill Hendrickson Lohmeier, UMass Lowell</i>
	Campus Center, 3rd Floor, Ballroom 3550A
4:00 p.m. - 4:45 p.m.	Description of Day 2 Protocol <i>Bob Chen, UMass Boston</i>
	Campus Center, 3rd Floor, Ballroom 3550A
4:45 p.m. - 5:00 p.m.	Closing <i>The Cool Science Team</i>
6:30 p.m.	Complimentary Dinner at Maggianos (Optional) 4 Columbus Ave, Boston, MA 02116

Day 2: Friday, April 26, 2024

SCHEDULE	
<p>8:00 a.m. - 9:00 a.m.</p> <p>9:00 a.m. - 9:15 a.m.</p>	<p>OPENING SESSION Campus Center, 3rd Floor, Ballroom 3550A</p> <p>Breakfast</p> <p>Welcome and Recap of Day 1 <i>Bob Chen, UMass Boston</i></p>
IDEA DISCUSSION 1	
<p>SESSION A</p> <p>9:15 a.m. - 10:00 a.m.</p>	<p>Campus Center, 3rd Floor, Ballroom 3550A</p> <p>Earl the Eel: Making Pollution Clean Up Fun <i>Valerie Thompson, SAIC</i></p>
<p>SESSION B</p> <p>9:15 a.m. - 10:00 a.m.</p>	<p>Campus Center, 3rd Floor, Room 3540</p> <p>Cool Science Partnership+ <i>Lynn Dierking, Oregon State University</i></p>
<p>SESSION C</p> <p>9:15 a.m. - 10:00 a.m.</p>	<p>Campus Center, 2nd Floor, Room 2545</p> <p>I Was a Kid <i>Karen Romano Young, I Was A Kid</i></p>
IDEA DISCUSSION 2	
<p>SESSION D</p> <p>10:00 a.m. - 10:45 a.m.</p>	<p>Campus Center, 3rd Floor, Ballroom 3550A</p> <p>Art Is Education 2.0? <i>Louise Music</i></p>
<p>SESSION E</p> <p>10:00 a.m. - 10:45 a.m.</p>	<p>Campus Center, 3rd Floor, Room 3540</p> <p>Trash Talk in Further Action <i>Bob Alexander, Rural Livelihood Risk Management</i></p>
<p>SESSION F</p> <p>10:00 a.m. - 10:45 a.m.</p>	<p>Campus Center, 2nd Floor, Room 2545</p> <p>DNArt - Art or Not? <i>Ian Fogarty, Riverview High School</i></p>
<p>10:45 a.m. - 11:00 a.m.</p>	<p>Break</p>
IDEA DISCUSSION 3	
<p>SESSION G</p> <p>11:00 a.m. - 11:45 a.m.</p>	<p>Campus Center, 3rd Floor, Ballroom 3550A</p> <p>Further Catalyzing New Voices for Transformational Change through Hybrid Dialogue Approaches <i>Bob Alexander, Rural Livelihood Risk Management</i></p>
<p>SESSION H</p> <p>11:00 a.m. - 11:45 a.m.</p>	<p>Campus Center, 3rd Floor, Room 3540</p> <p>Learn with Synergy <i>Ellen Matesanz and Ruth Clegg, Art League RI</i></p>
<p>11:45 a.m. - 1:30 p.m.</p> <p>1:30 p.m. - 4/5 p.m.</p>	<p>Campus Center, 3rd Floor, Ballroom 3550A</p> <p>Closing, Lunch, and Discussion Local Field Trips</p>

GENERAL INFORMATION

The conference will take place on UMass Boston's campus in the Campus Center [see pink box on map].

CONFERENCE REGISTRATION

Staff will be available on the 3rd floor of the UMass Boston Campus Center to assist participants with check-in and conference information. Please be sure to pick up your name badge and materials.

INTERNET ACCESS

UMass Boston Wifi Access

Option 1: Visitors to UMass Boston can access the internet via the UMass Boston Guest wireless network. This network is intended for casual use of the internet via web browser (web surfing, webmail, etc). Due to limited bandwidth, no streaming of audio or video is supported.

1. Connect to "UMB-Guest" through your device's wireless connections page.
2. Launch your web browser and navigate to a webpage to begin the wireless network validation process. You will be redirected to a welcome page for the UMass Boston Guest Wifi network. Enter UMBGuest password: Spring4ward24!

Option 2: For those who work at a research or educational institution, you may be able to use the "Eduroam" Wifi network. Choose the "Eduroam" network.

1. Enter your full research/educational institution email and password.
2. Accept the certificate.

PARKING

UMass Boston On-Campus Parking

West Garage, University Drive West, across from the Integrated Science Complex (ISC). Take a ticket and we will provide you at the conference with a free pass to exit the lot. NOTE: This location is the only parking lot on campus we are able to validate, so please use this lot. You can either walk 10 minutes across campus to the Campus Center or use the free UMass Boston Route 2 shuttle which connects the West Garage with the Campus Center.

UMass Boston Overnight Parking

You can request overnight parking at the West Garage by sending an email, in advance, to parking at trans@umb.edu.

DoubleTree Parking

A complimentary airport shuttle is available daily from 6 a.m. to 10 p.m. (last pickup 9:30 p.m.). Please text the Guest Services team at 617-433-9800 to request the shuttle service. Please tell the front desk that you have parked your car and they will add it to your room charge (we will cover the cost).

UMASS BOSTON SHUTTLE BUSES

Those staying at the DoubleTree Hotel can take a Route 1 and/or Route 3 UMass Boston shuttle bus to the Campus Center. The shuttle buses leave across the street from the Mt. Vernon Street entrance to the Bayside lot and run regularly from 5:30 a.m. to 11:30 p.m. You can also walk to the Campus Center in approximately 20 minutes. Both the bus and walking will take 10-20 minutes of travel so please plan accordingly.

UMASS BOSTON CAMPUS MAP



TRANSPORTATION

MBTA - Bus, Commuter Rail, and Subway

The Massachusetts Bay Transportation Authority (MBTA), referred to as the “T”, provides subway, bus, commuter rail, and ferry services.

The JFK/UMass subway station on the MBTA Red Line is a 5 minute walk to the DoubleTree Hotel and a 10-20 minute walk up Mount Vernon Street to the UMass Boston dormitory and Campus Center. The Route 1 shuttle service runs to and from the train station to UMass Boston campus.

From Logan Airport to UMass Boston: Take the Silver Line (SL1) transit bus to South Station. Transit service from the airport Silver Line to South Station is free. At South Station, transfer to the Red Line subway which will take you directly to the JFK/UMass Boston station where you can walk or take a UMass Boston shuttle to your lodging destination.

Taxi Service

Numerous taxi services are available in and around Boston. Below are two options.

Boston Airport Cab

www.bostonairportcab.com

617-576-9800

Boston Airport Express

www.bostonairportexpress.com

617-499-1919

Rideshare

Uber and Lyft are readily available in and around Boston, including services to and from the airport. Rideshare drop-off and pick-up is available on the south side of the Campus Center.

GROCERY

Star Market (pharmacy within store)

45 Morrissey Blvd, Dorchester, MA 02125

HOSPITALS

Boston Medical Center

One Boston Medical Center Place, Boston, MA 02118, 617-638-8000

Massachusetts General Hospital

55 Fruit Street, Boston, MA, 02114, 617-726-2000

NEARBY CAFÉS AND RESTAURANTS

Starbucks (locations at the DoubleTree Hotel & Star Market)

Speciality coffees, sandwiches, and snacks.

UMass Boston Food Court

Campus Center, 1st Floor

Pizza, deli counter, salad bar, traditional grab and go, and Burger King.

McKenna's Cafe

Large selection of breakfast and lunch American classics including omelets, pancakes, sandwiches, soups, and several entrees served all day.

www.mckennascafe.com

Savin Bar and Kitchen

Popular brunch and dinner spot with modern American fare and specialty cocktails.

www.savinbarandkitchen.com

Ghost Pepper Taco + Tequila Bar

This Mexican restaurant has a festive and vibrant atmosphere with delicious food and drinks.

www.ghostpepperboston.com

The Banshee

Popular Irish sports bar serving pub favorites including burgers, wings, steak and much more.

www.bansheeboston.com

HELPFUL LINKS

Travel to/from Logan International Airport

www.massport.com/logan-airport/to-from-logan/transportation-options/taking-the-t

MBTA Subway Schedules, Maps, and Trip Planner

www.mbta.com/schedules

MBTA Bus Schedule/Routes

www.mbta.com/schedules/bus

Travel to UMass Boston

www.umb.edu/the_university/getting_here

UMass Boston Campus Center

www.umb.edu/campus_center/about

DoubleTree by Hilton Bayside

www.hilton.com/en/hotels/boschdt-doubletree-boston-bayside

JOIN THE ONLINE COOL SCIENCE COMMUNITY

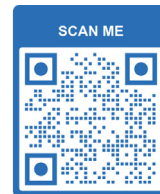
Website: www.coolscience.net

Facebook: <https://www.facebook.com/coolsci/>

Instagram: <https://www.instagram.com/coolscience2019.2023/>

X (Formerly Twitter): https://twitter.com/cool_sci

Youtube: https://www.youtube.com/channel/UC_WszdHDXyghC_n07TO9t7w



Student Artwork on Extreme Weather • Margaret, Grade 2, Boylston, MA
How a Community Can Prepare for Extreme Flooding

PREVENT FLOODING **PROTECT WETLANDS**

Plants absorb water
Prevent erosion

PEAT MOSS
ABSORBS WATER
LIKE A SPONGE!
← Soggy boggy soil

To read Margaret's artist statement, please visit COOLscience.net

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The logo for COOLscience features a blue curved line above the word "COOLscience". "COOL" is in blue and "science" is in green.