

Engaging Diverse Youth in STEM Programming

Ruby Mendenhall
Sociology & African American Studies
Assistant Dean, Carle Illinois College of Medicine

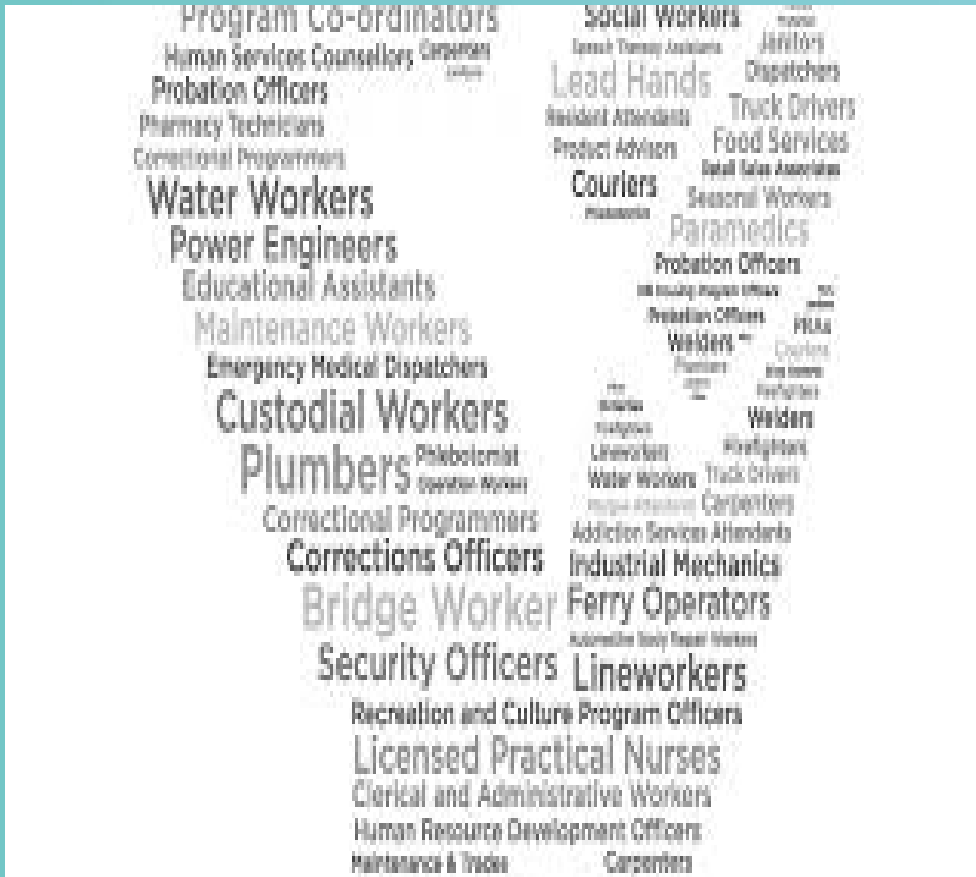
April 2, 2021



DESIGN THINKING
Integrating Human-Centered Design



Thank You More Than Words Can Say



Source: IB Workers

1968 Sanitation Workers' Strike in Memphis

Dr. King said “our society will come to respect the sanitation worker if it is to survive, for the person who picks up our garbage, in the final analysis, is as significant as the physician, for if he doesn’t do his job, diseases are rampant. All labor has dignity.”

Source: **Gene B. Sperling**. April 24, 2020

“**Martin Luther King Jr. Predicted This Moment**: The coronavirus shows us clearer than ever before that “all labor has dignity.” *New York Times*.

Economic Dignity (higher pay)



“Sacred Work” – Frederick Douglass to President Lincoln Third Reconstruction & Renaissance



Title: “New Opportunities:
Artist: Danielle Hunter



Facebook

Third Reconstruction – Renaissance – All Levels

System is Diffuse and Like a Squishy Ball – NSF Workshop

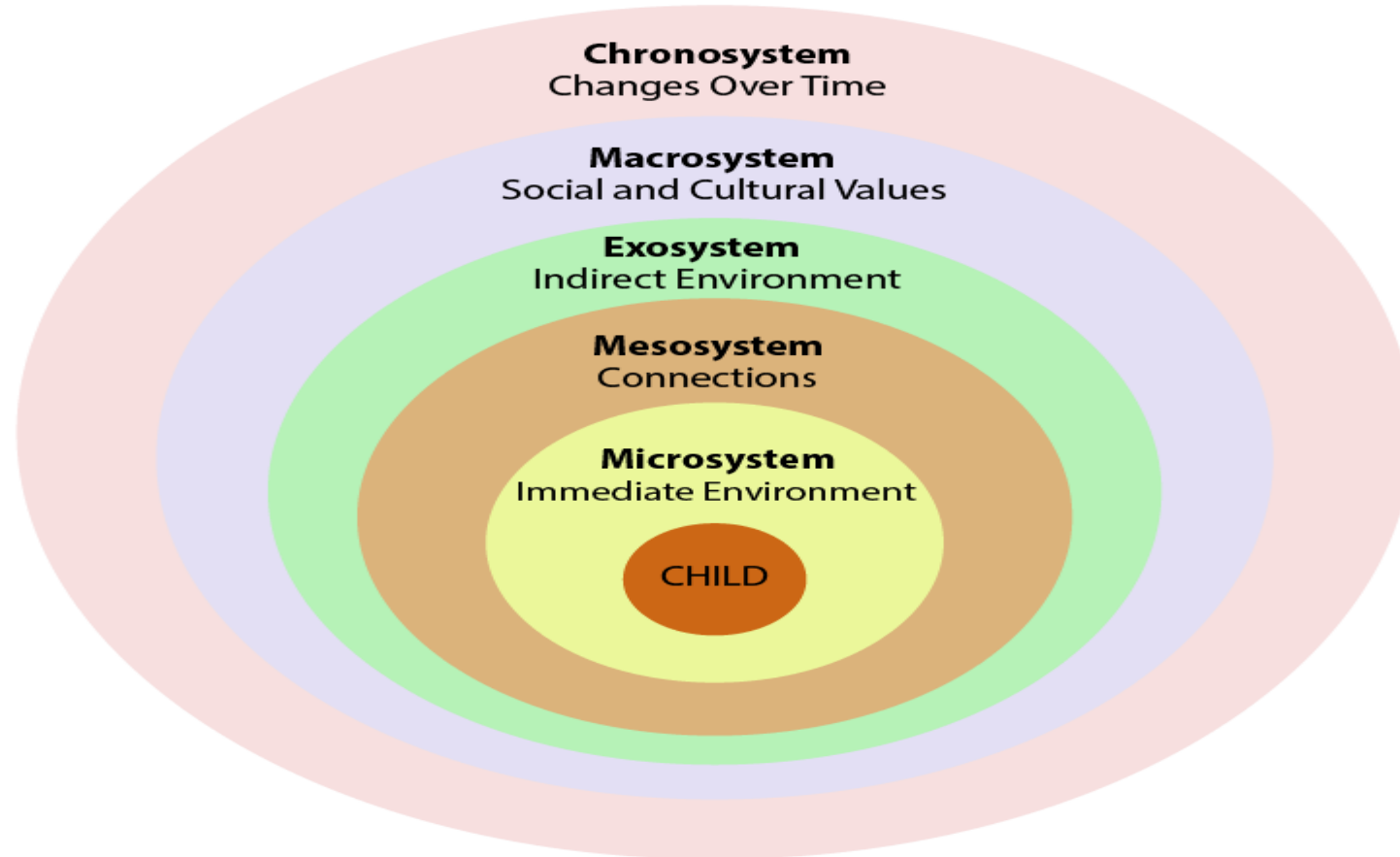


Apply Pressure,
Maintains Shape



Create New
Shapes

Bronfenbrenner's Ecological Systems Theory




(C) The Psychology Notes Headquarters <https://www.PsychologyNotesHQ.com>

The “squishy ball” of system (Lois Weis, Margaret Eisenhart, Kristin Cipollone)

<https://journals.sagepub.com/doi/abs/10.3102/0002831215604045>



Points

- Motivation
 - DREAMing & Designing Spaces of Hope (Communiversality)
 - STEM IL Communiversality Wellness Center & Think & Do Tank
 - STEM IL Nobel Project
 - CI MED Health Maker Lab: Designing Resiliency and Well-Being (DRAW)
- 

Assistance Needed

- Project Manager Role
- FarmBots – assemble FarmBot, teach Python
- Satellites – teach Python
- Community Health Workers – Training, Toolkits, DREAM Accelerator (entrepreneurship and wealth creation)
- Research Team – transcribing interviews, analyzing data, co-authoring papers, documentaries, etc.



Book by Bob Adelman (1972) called *Down Home*

GirlTrek – “Daughters of” Campaign I am the daughter of ...

I am the descendant of enslaved humans...

Great, Great Great Grandmother	Polly Marshall (enslaved)	Unknown
Great, Great Grandmother	Francis Marshall Jackson (enslaved)	?Emily Buck “They didn’t talk about anything like that (slavery).” Mom
Great Grandmother	Rosa Jackson Isom	Dora Jamison (Black & American Indian)
Grandmother	Mary Francis Isom Mendenhall	Marie Jamison Prince
Great Aunt	Rosanelle Isom	
Mother	Ruby Mendenhall	

MGGGM (human enslaved)

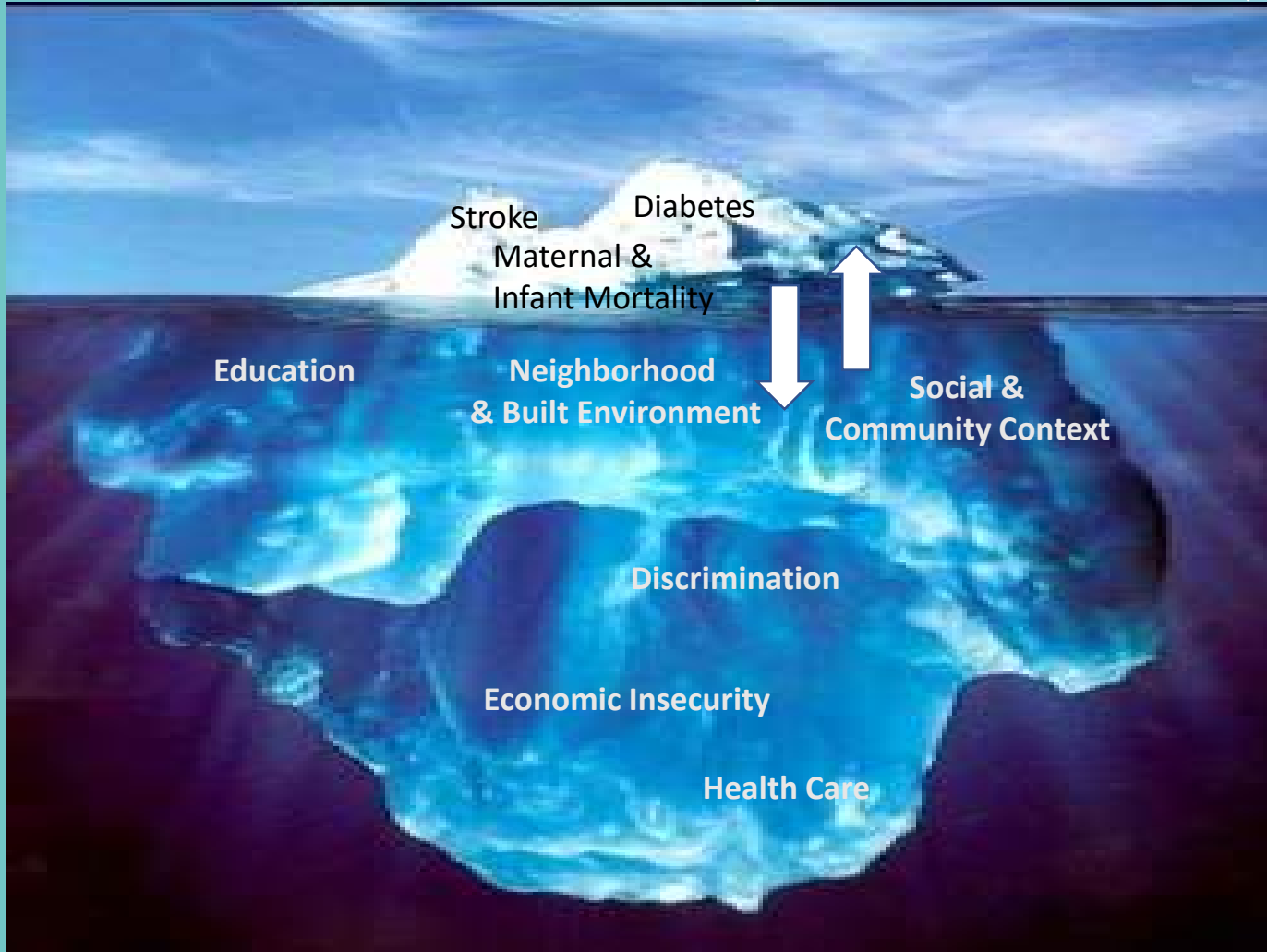
Story: saw a mother sold away from nursing baby, slept by the fire

Sundown Town, Jim Crow Water Fountain

Dismantle Interlocking Systems of Oppression!

Training: Structural Competence and Social Determinants of Health

Documentary - Unnatural Causes: Is inequality Making Us sick

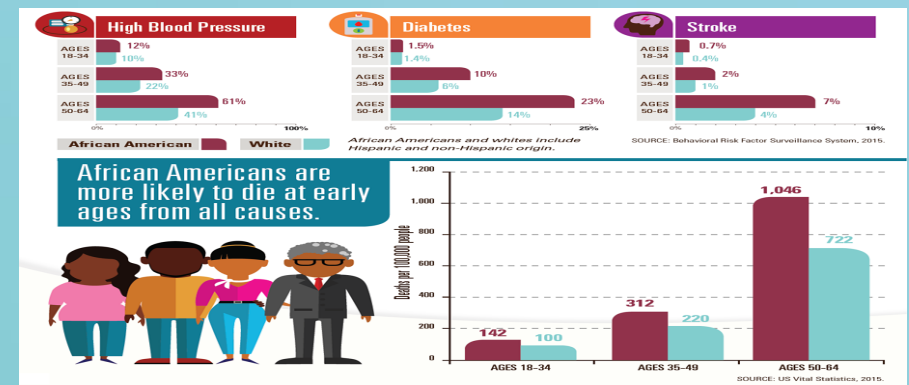


Living Conditions: residential segregation, hyper surveillance, affordable housing, etc.

Working Conditions: unemployment and underemployment (skills mismatch, low pay, not enough hours, etc.)

Education: inadequate education, lack of access to higher education or training for living-wage jobs

Mental Health: drug and alcohol addiction, etc.



Culture of Health: funding for prevention/wellness strategies, mental health workers, economic development, housing, etc.

Infant Mortality and African Americans

- African Americans have **2.3 times** the infant mortality rate as non-Hispanic whites.
- African American infants are **3.8 times** as likely to die from complications related to low birthweight as compared to non-Hispanic white infants.
- African Americans had **over twice** the sudden infant death syndrome mortality rate as non-Hispanic whites, in 2017.
- In 2017, African American mothers were **2.3 times** more likely than non-Hispanic white mothers to receive late or no prenatal care.



ACEs Training: (Racial) Trauma Over the Life Course

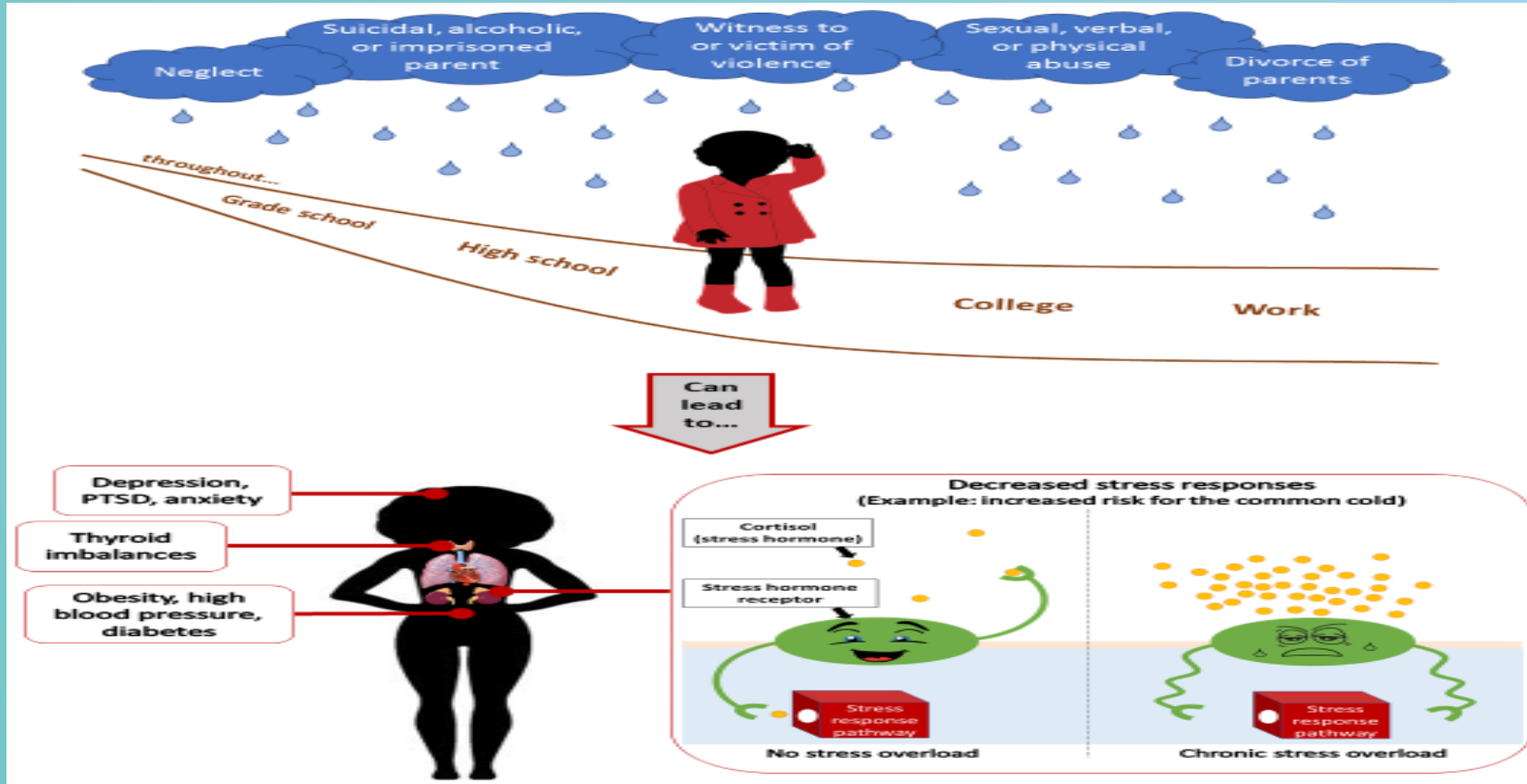


Nadine Burke
Surgeon General, CA

Samantha Houser and
Kaneshia Overton,
Medical Students Draft Image

Chicago Research, ~100 Black Mothers

Family Struggled with Money in Childhood	57%
Sexually Abused or Molested	22%
Witnessed a Shooting as a Child	41%
Death of a Parent	36%



Communicate to patients



What's Left Behind?



- “We are living in war zones.”
- Stephon Clark’s Aunt

• https://m.facebook.com/story.php?story_fbid=2500156170004398&id=155869377766434&_rdr



Charisma Pryor

<https://www.youtube.com/watch?v=vRTClIY4yTg>

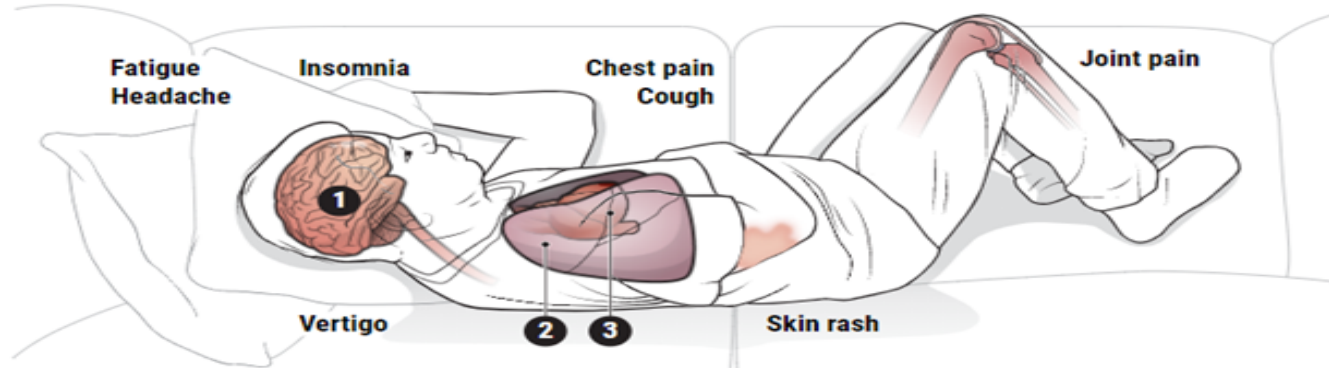
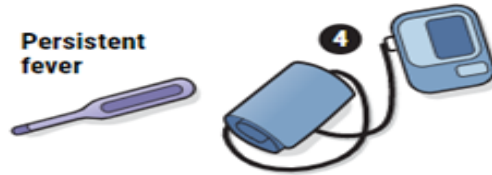


COVID-19 PANDEMIC

US: 234,223 Deaths and 9.5 Million Cases (possible lingering effects) Source: NYT, 11.5.20

Pain that lingers

A subset of COVID-19 patients experiences ongoing symptoms and complications such as organ damage, and researchers are proposing reasons for some of them (bottom). Scientists are trying to identify such symptoms, how common they are, how long they last, who's at risk, and how to treat and prevent them.



1 Brain fog

Difficulty thinking can occur after acute COVID-19 infection. The virus may damage brain cells, and inflammation in the brain or body may also cause neurologic complications. Other viral infections can also lead to brain fog.

2 Shortness of breath

Doctors are eyeing lung and heart complications including scarring. Patients who become critically ill with COVID-19 seem more likely to have lingering shortness of breath, but those with mild cases are also at risk.

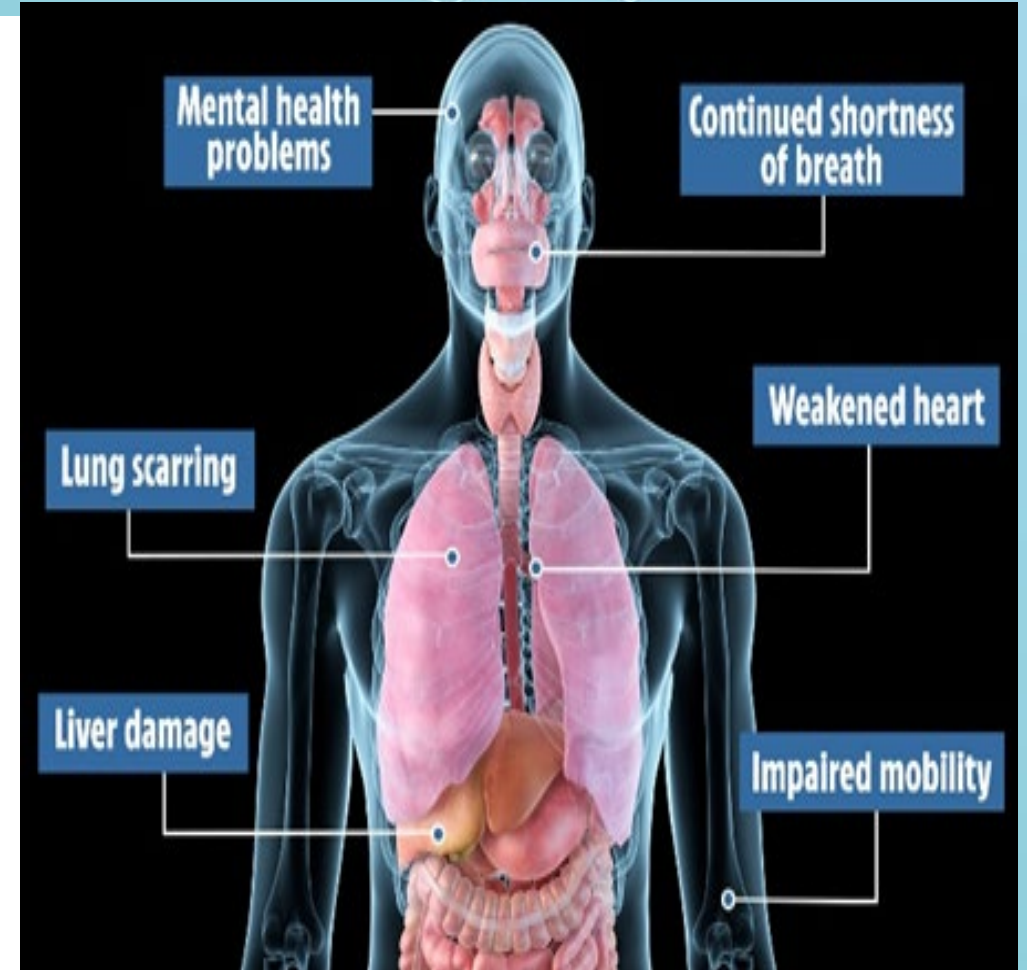
3 Heart arrhythmia

The virus can harm the heart, and doctors are concerned about long-term damage. How the heart heals after COVID-19 could help determine whether a patient develops an irregular heartbeat.

4 Hypertension

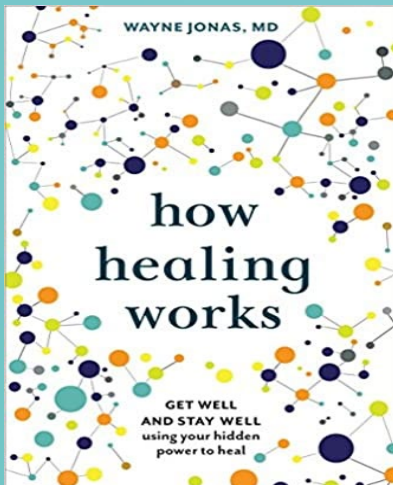
Some patients have high blood pressure after an acute infection, even when cases were relatively mild and people were previously healthy, possibly because the virus targets blood vessels and heart cells.

V. ALTOUNIAN/SCIENCE

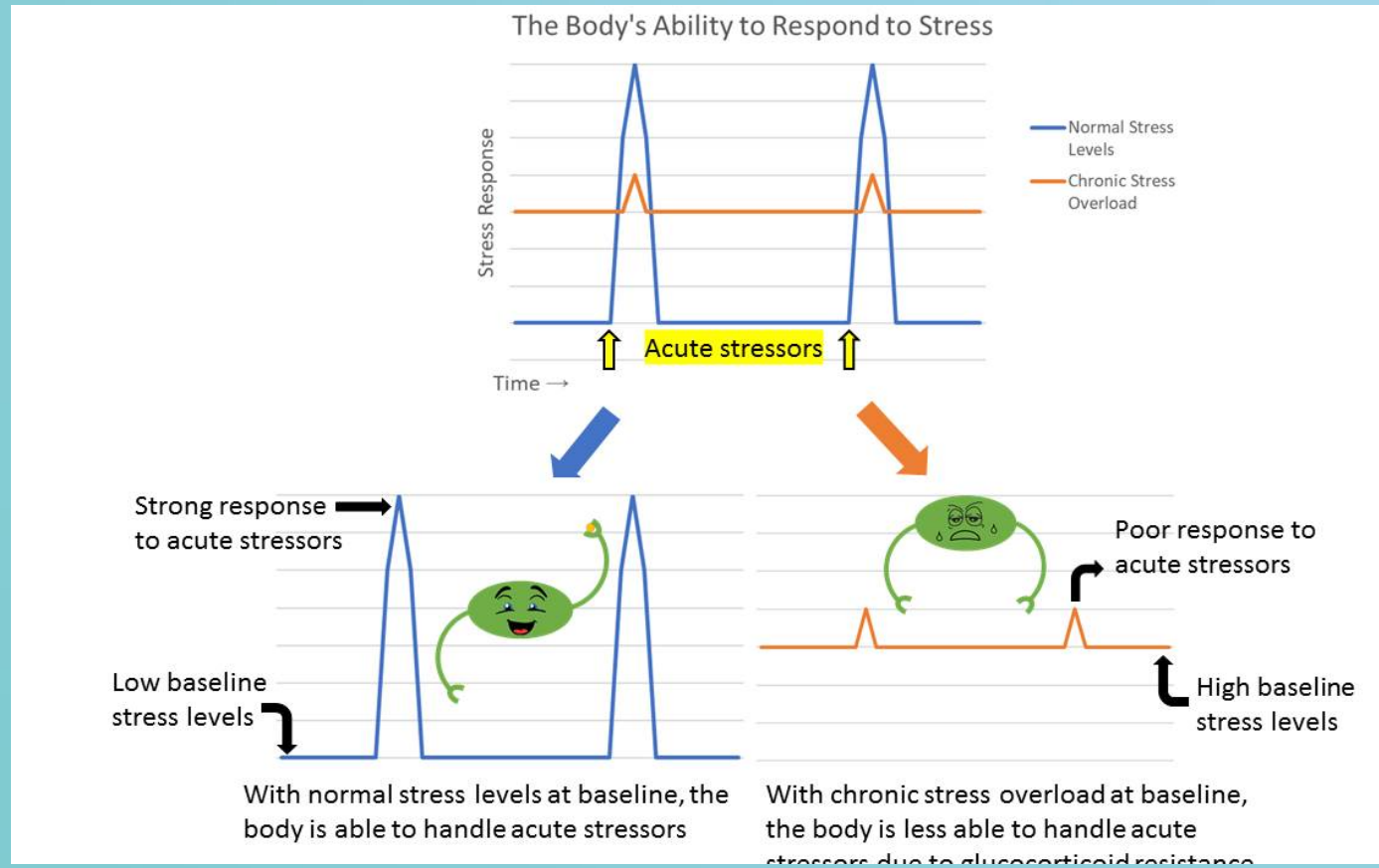


Training – Everyone as an Expert

- “Its just not only stress for adults it’s a lot on the kids. Kids ask you a lot of questions... Like my son friend got shot in the eye at the gas station on his way to school and died.”
- Black female college professors



Cultural Sensitivity: rituals, practices, resiliency, interior, etc.



Samantha Houser and Kanessa Overton,
Medical Students Draft Image – Trauma
Over the Life Course

We Need a Social Movement that Democratizes Health Education!!

NAACP – Health Committee

Black Panthers – Free Clinics, Campaigns (SSD), etc.

Train Corps of Health Workers (100 million+)

- Health Workers (CNAs, doctors, etc.) – Nobel Project
- Citizen/Community Scientists (COVID-19 Project)
- Community Health Workers (Morehouse College of Medicine)
- Everybody else (grandmothers, farmers, etc.)
 - Psychological First Aid (CU)
 - Psychological Recovery (CU)
 - Verbal First Aid (Pager & Acosta)
 - Neuroscience (body, mind & soul)
 - Genomics and Epigenetics

Mechanisms

- Community Centers & Clinics
- Online Education & Certificate
- Media (ex. School House Rock)

• I'm Just A Bill: <https://www.youtube.com/watch?v=FFroMQIKiag>



JOIN THE TRAUMA & RESILIENCE INITIATIVE FOR

Psychological First Aid (PFA) & Skills for Psychological Recovery (SPR)

TRAINING

MON. OCT. 26TH 10:30 AM - 12:30 PM
&
FRI. OCT. 30TH 1:00 PM-4:00 PM

You will get a Certificate of Completion in PFA & SPR!

PFA & SPR are evidence-based practices designed to address community-level trauma and mental health needs, and triage those who are most in need of care.

You must attend both sessions.
(CEUs are available for this training)

This training will re-enforce the skills needed to conduct PFA & SPR!

You can also complete the full online training at the link below!

<https://learn.nctsn.org/course/index.php?categoryid=11>

Register for free at
<https://www.eventbrite.com/e/healing-solutions-virtual-fall-training-tickets-122712074117>

PLEASE CALL/TEXT FOR MORE INFO
(217) 673 7122
OR EMAIL:
SAMYRA@TRAUMARESILIENCEINC.ORG


CU Trauma & Resilience Initiative receives grant funding from the Champaign County Mental Health Board and the Champaign County Community Coalition.

A graphic of a hand holding a stack of three cards. The top card shows a silhouette of a head with a heart inside. The middle card shows two hands, one reaching out. The bottom card shows three icons: an eye, an ear, and a handshake, with the text "LOOK LISTEN LINK" below them.

Karen Simms, Trauma Resiliency Initiative

Research Questions - QUESTs



- How does stress get “under your skin” to negatively affect your health?
 - How do you prevent those deaths (resiliency and transcendence)?
 - How does living in racially segregated neighborhoods with high levels of violence affect mental and physical health?
 - How do you foster **STEM identities** and help kids see themselves as scientists, mathematicians, technology experts, and engineers?
 - How do you build STEM confidence and fosters critical social and emotional skills?
 - How do you help a students and parents achieve their **DREAMs**?
 - How do you open new doors of opportunity by providing **unprecedented access**?
- 

TRAINING: CONVERGENCE SCIENCE, COMPETENCE &

INNOVATION



Clinical problems
Ideas/Dreamers
“I wish I had a...”

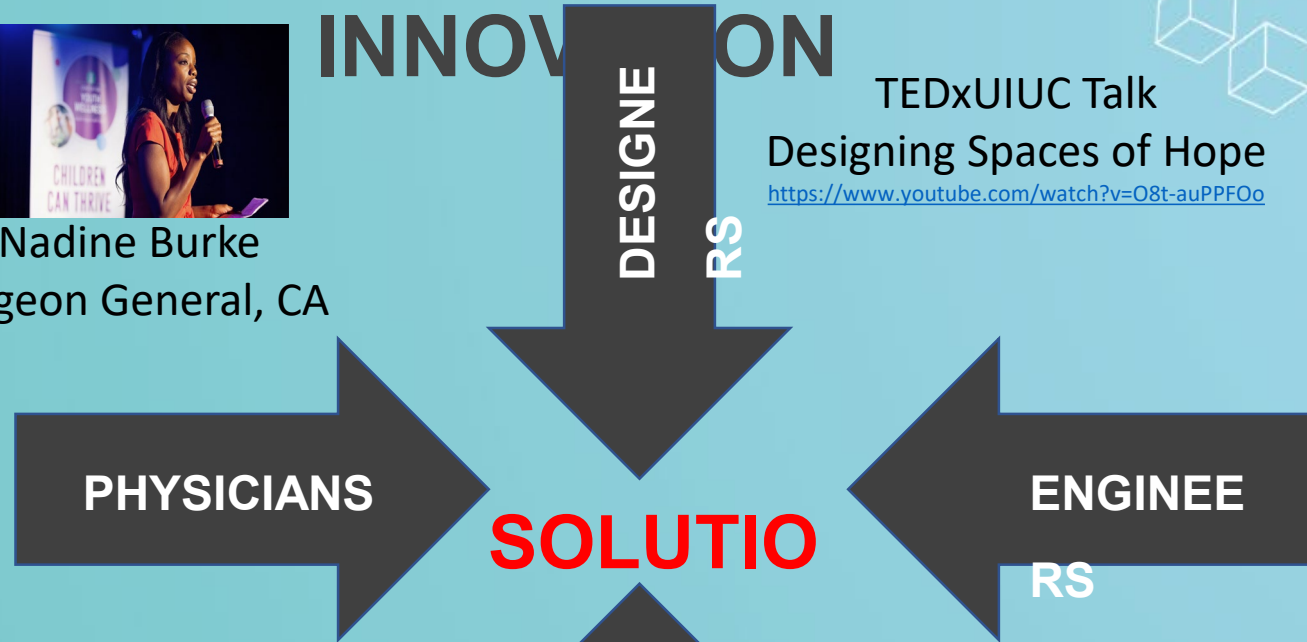


Nadine Burke
Surgeon General, CA

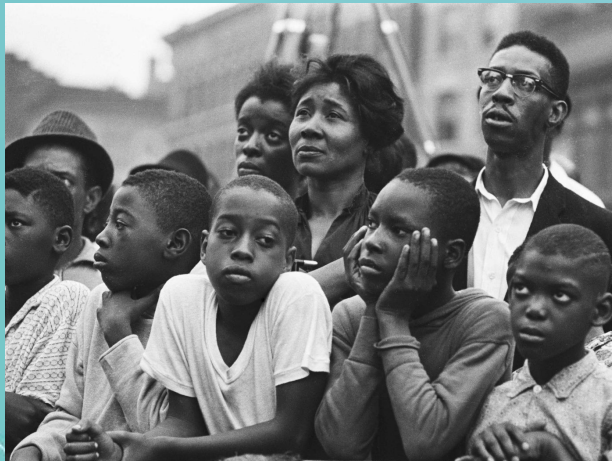
TEDxUIUC Talk
Designing Spaces of Hope
<https://www.youtube.com/watch?v=O8t-auPPFOo>



Clinical ideas
Makers/Doers
“We invented a...”



Think Tanks



COMMUNITY

Isolation Rooms
Healthy Diets
Mental Distress



Dr. Mae Jamison

Questions

?

?

Answers

?

STEM IL Communiversity Wellness Center Lincoln Square Mall

Elder Chair, Antoinette Burton

FREEdom Library



STEM IL Communiversality

Think and Do Tank



Office Hours
Mutual Knowledge Exchange



Webcasts

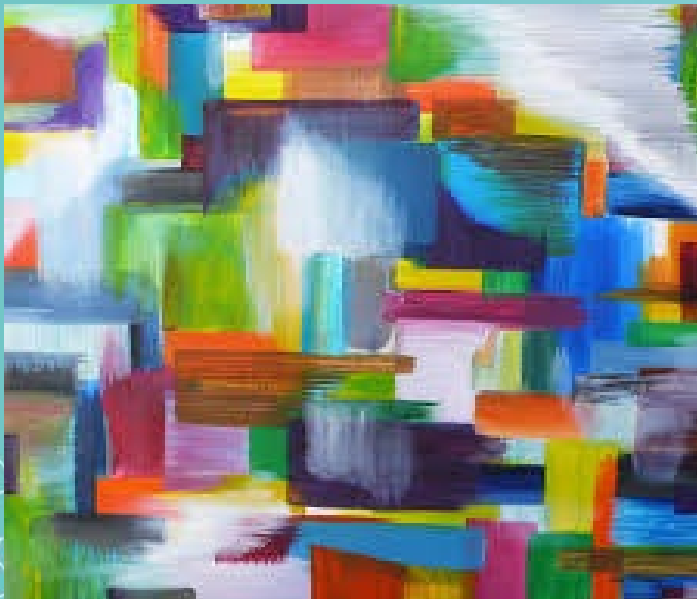


Multimedia Studio
(School House Rock)

Community & University Art Gallery Artists-in-Residence, 2019-2020



Kelli Stretesky
Art for Hospitals+
"Thoughts"



Jenny Davis
Anthropology, GWS &
American Indian Studies
"17 Year Cicada"



Xin Ran (Ruby)
Wang,
International
Student, China



Think and Do Tank Webcasts

Scholars-in-Residence
Pre-med Students
Artists (Jenny & Kelli)
Farmers (plan)

DREAM Incubator
Parents & Youth



**A ROAD MAP FOR
BUILDING
INTERGENERATIONAL
WEALTH**

COMMUNIVERSITY THINK AND DO TANK WEBCAST
SATURDAY, OCTOBER 10, 2020
2 - 3 PM CST
REGISTRATION LINK:
<https://go.illinois.edu/Communi-versityWebcast>



Dr. Jolly is an expert on working with groups and individuals to build equitable communities.

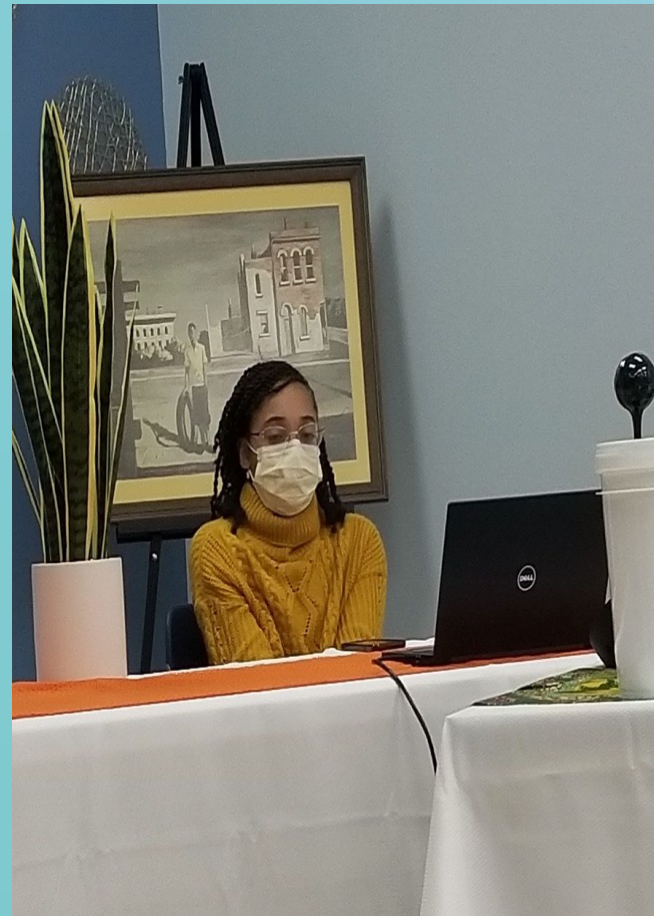


FEATURING
DR. PAMELA JOLLY

Learn how to grow wealth in all areas of your life!

Please send questions for Dr. Jolly to Molly Galloway:
mgallow2@illinois.edu

Intergenerational Wealth



Marianna Thadison
Middle School
DREAM: Own Bakery



Community
Think and Do Tank
Webcast

Saturday, November 14th
8:30-9:30am CST



**A ROAD MAP TO
BECOMING A
DOCTOR**

FEATURING
DRS. KAMENO BELL,
CHRISTOPHER HICKS,
AND GARTH WALKER

Join us to hear about their **dreams** as children, their **role models**, their time as **student-athletes**, and their careers as **medical doctors**.

You can submit your questions for our guests to mgallow2@illinois.edu



Dr. Christopher Hicks
Orthopedic Surgeon
Former Fighting Illini Basketball Player



Dr. Garth Walker
Emergency Medicine Physician

College of Medicine, MCB, CS, etc.
Pathway Program

The Nobel Project

A Free Computer Science Program
Grades: 6th-12th

Program Details

- Program Starts: October 2020
- Meetings: Two hours a week for a year
- Compensation: Up to \$400 for attending weekly meetings online & creating a digital book
- No computer experience required
- How to Apply:
<https://surveys.illinois.edu/sec/1286772601>
- For more information, please contact Molly Galloway at mgallow2@illinois.edu or (872) 356-2049

Funded by the National Science Foundation



Carle Illinois
COLLEGE OF MEDICINE

Carle ILLINOIS

What is Computer Science?

- Wellness Tracking
- Artificial Intelligence
- Drones
- Coding
- Video Gaming
- Data Visualizations
- Entrepreneurship
- Math
- Phone App Creation
- Music Production
- Telehealth
- Virtual Reality



CREATING A SUPPORTIVE CIRCLE

TAKING GRIEF BY THE HAND

Time: 6 - 7:30 pm CST

Dates: Tuesdays - Nov 17, Dec 1,
Dec 8, & Dec 15, 2020



SHANDRA SUMMERVILLE &
INVITED GUESTS

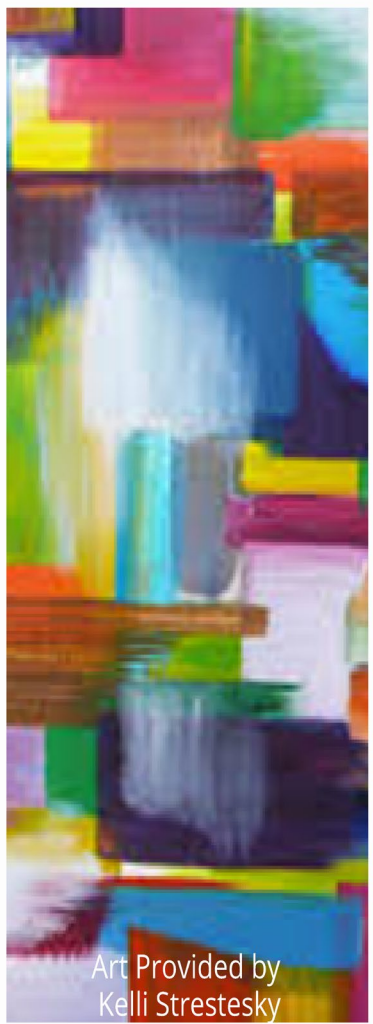
HOSTED BY RUBY MENDENHALL
COMMUNITY
WELLNESS CENTER



Register for this class at:
<https://us02web.zoom.us/meeting/register/tZUvc-CvqT0tGtGS4nZweSciiEPJ7EH1z3dv>



Pathway Program: College of Medicine,
Molecular & Cellular Biology, Computer
Science, etc.



Art Provided by Kelli Strestesky



THE POWER OF ART TO HEAL, INFORM, AND TRANSFORM

A Virtual Art Class with Kelli Strestesky



2- 3 pm on Saturday
December 12, 2020

Zoom Link:

https://illinois.zoom.us/webinar/register/WN_xy1jfZ29R0Ses4QTVZmskQ

strestesky.com
artforhospitals.org

Stay tuned for information about an upcoming art competition

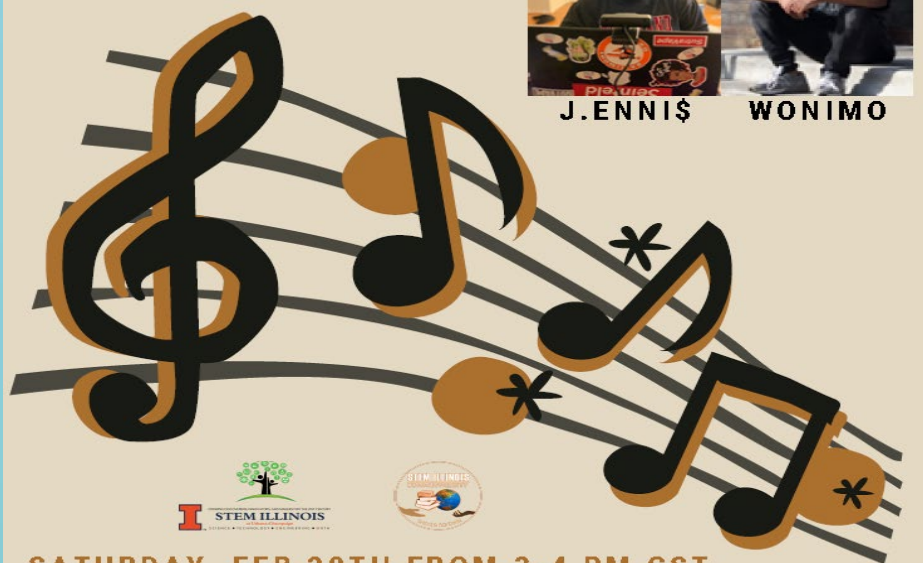


COMMUNITY THINK & DO TANK

THE EXPLOSIVE NATURE OF MUSIC AS A MENTAL HEALTH TOOL



JENNI\$ WONIMO



SATURDAY, FEB 20TH FROM 3-4 PM CST
REGISTRATION LINK:

SATURDAY - FEB 27TH - 3:00-4:30 PM

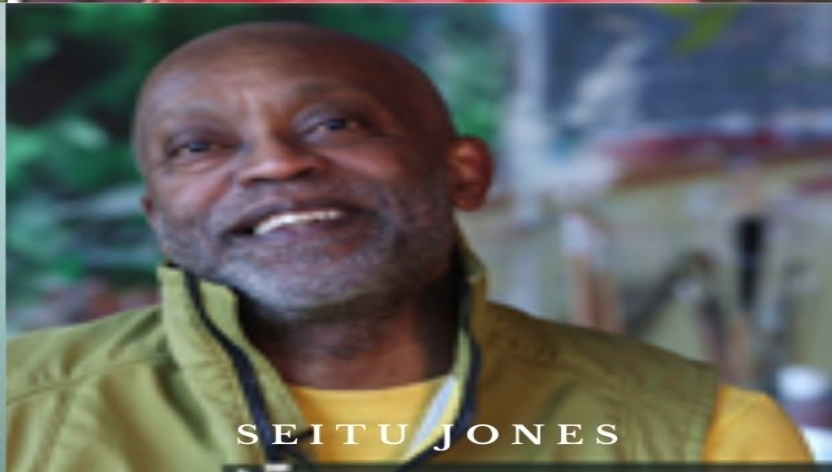
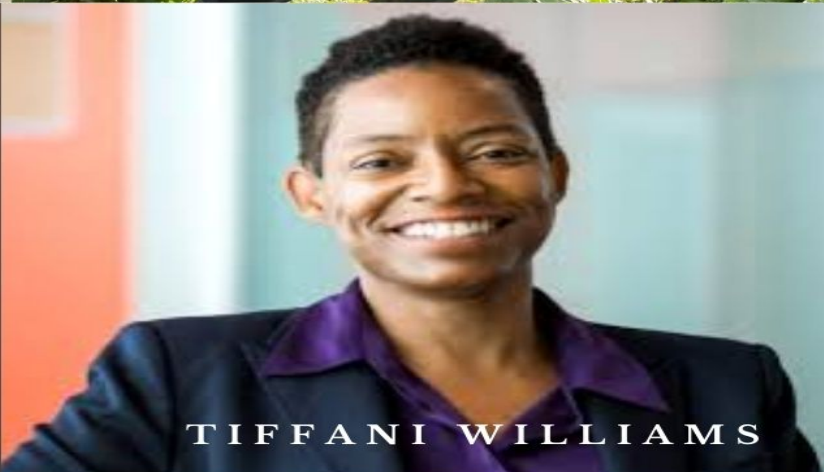
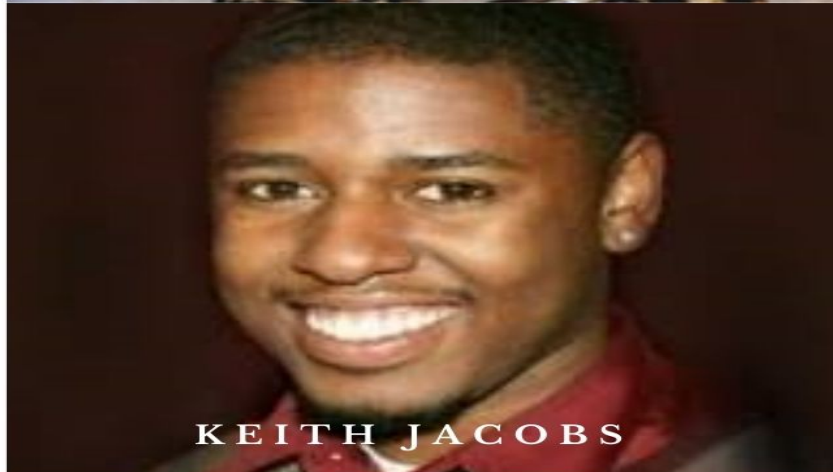
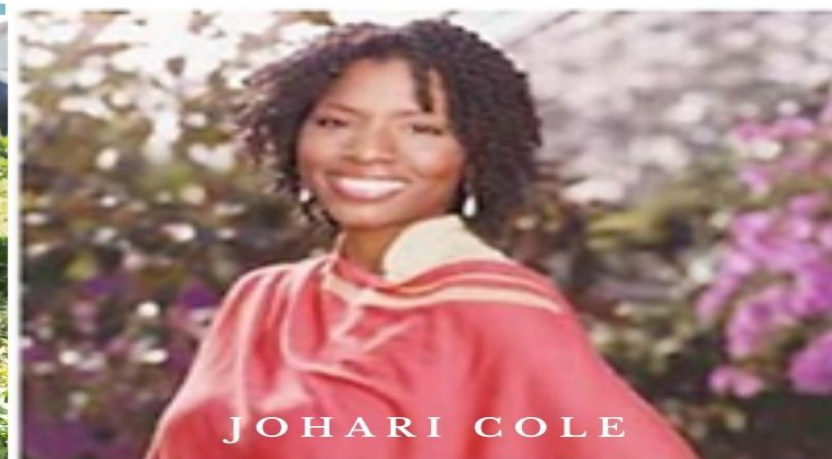
The Art and Science of Black Farming



STEM IL Communiversity Think and Do Tank

Please register at:

<https://go.illinois.edu/TheArtandScienceofBlackFarming>



Nobel Laureates



Dr. Robert Grubbs

Nobel Prize in Chemistry in 2005
Development of the metathesis method
in organic synthesis

Speaking to Students: April 10, 2021



Dr. Richard Roberts

Nobel Prize in Physiology or Medicine in 1993
Gene Splicing

Speaking to Students: April 24, 2021



DREAM Incubator

Bakery, sports, computer scientists, food banks, etc.



[This Photo](#) by Unknown Author is licensed under [CC BY-SA](#)

Digital Book: DREAMs



[This Photo](#) by Unknown Author is licensed under [CC BY-SA](#)

Youth Wealth Incubator

- Inventor Toolkit
- Youth Intellectual Property Clinic



This Photo by Unknown Author is licensed under [CC BY](#)



This Photo by Unknown Author is licensed under [CC BY](#)

Identities as Knowledge Producers



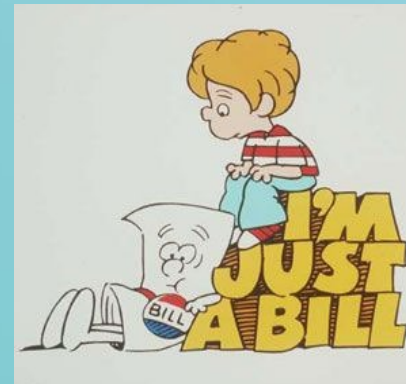
Youth TEDx July 2020
Applied for License



CyberGIS Center for
Advanced Digital and
Spatial Studies

Make-A-Thon, 11.18.20
Community Mapping
& COVID-19

1st Place: \$300
2nd Place: \$200
3rd Place: \$100



Math
Music Production
Wealth & Entrep.



FIRST PRIZE WINNER

THIS IS PRESENTED TO

Siri Polk

for exemplary performance in the
Community Mapping Make-A-Thon
Hosted by the STEM Illinois Nobel Project

Ruby Mendenhall

RUBY MENDENHALL

Co-Director of STEM IL

Lisa Goodpaster

LISA GOODPASTER

Associate of Project
Management

Molly Galloway

MOLLY GALLOWAY

Program Evalautor



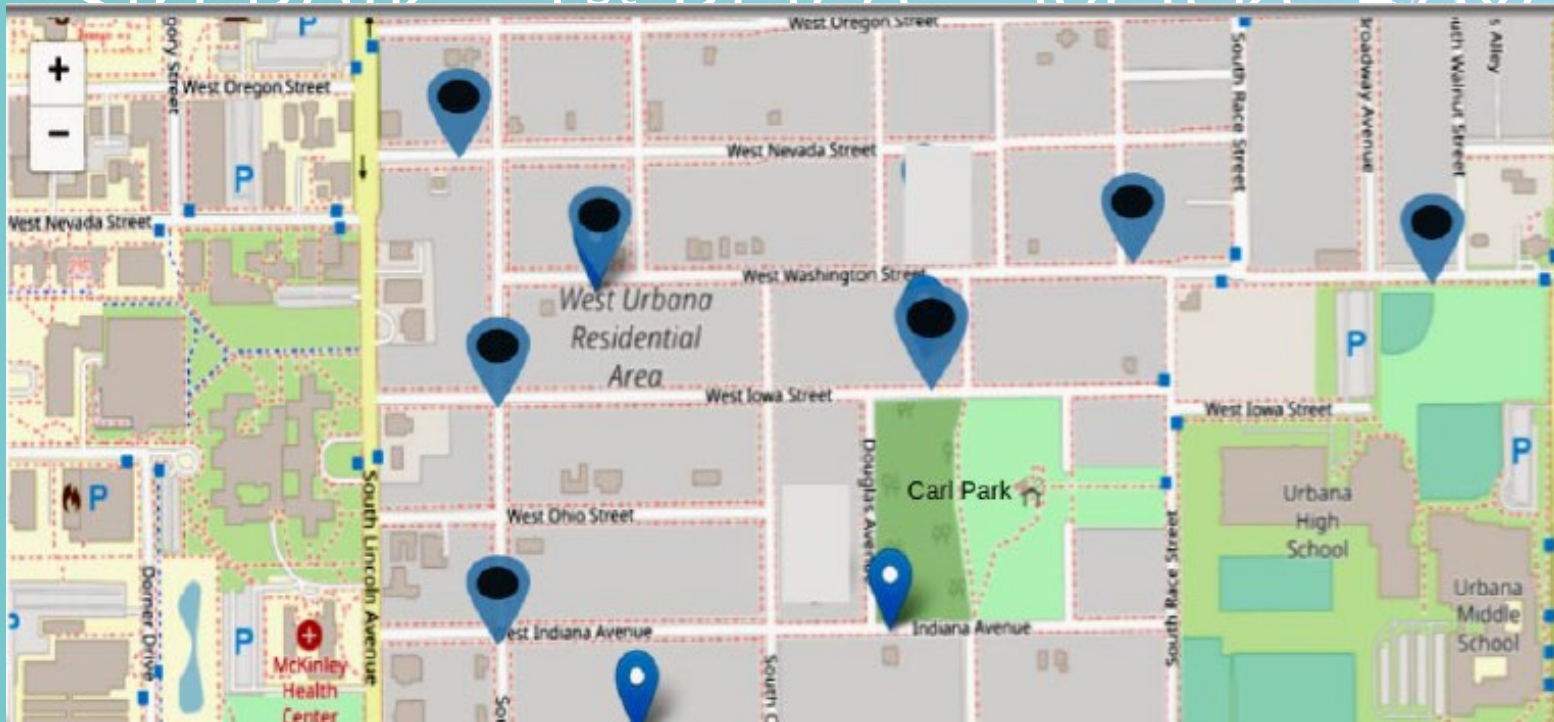
GROWING DISCOVERERS, INNOVATORS, AND MAKERS FOR THE 21ST CENTURY

STEM ILLINOIS

at Urbana-Champaign

SCIENCE • TECHNOLOGY • ENGINEERING • MATH

Ciri Dolk 1st Place - Masks Boxes



Problem: Senior citizens and citizens unable to go into stores to buy masks.

Solution: Make wooden boxes with hooks on the inside and a sliding door. Each hook will have a few masks hung on it. We will then plant these all around the neighborhood so anyone that needs a mask can take one.

Impact: This will help because then people without masks can get masks without having to go into stores and have the risk of getting COVID-19. My solution will help reduce stress of going outside, it would also help older people that don't want to go into stores. If one of the people that took a mask has COVID-19, that could lower the risk for others.



Samuel Tronconis



SECOND PRIZE WINNER

THIS IS PRESENTED TO

Samuel Tronconis

for exemplary performance in the
Community Mapping Make-A-Thon
Hosted by the STEM Illinois Nobel Project

RUBY MENDENHALL

Co-Director of STEM IL

LISA GOODPASTER

Associate of Project
Management

MOLLY GALLOWAY

Program Evalautor



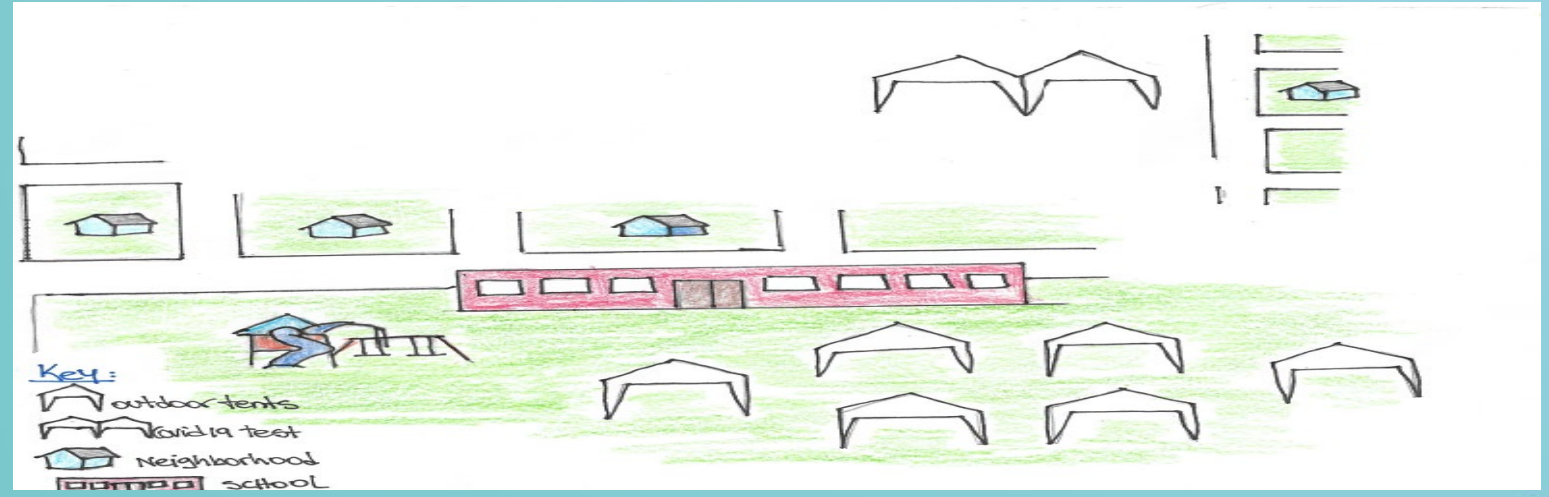
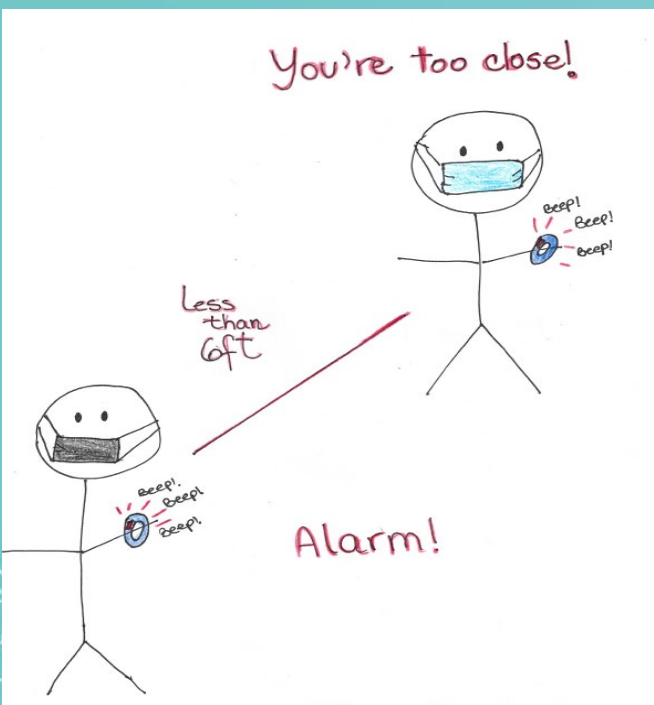
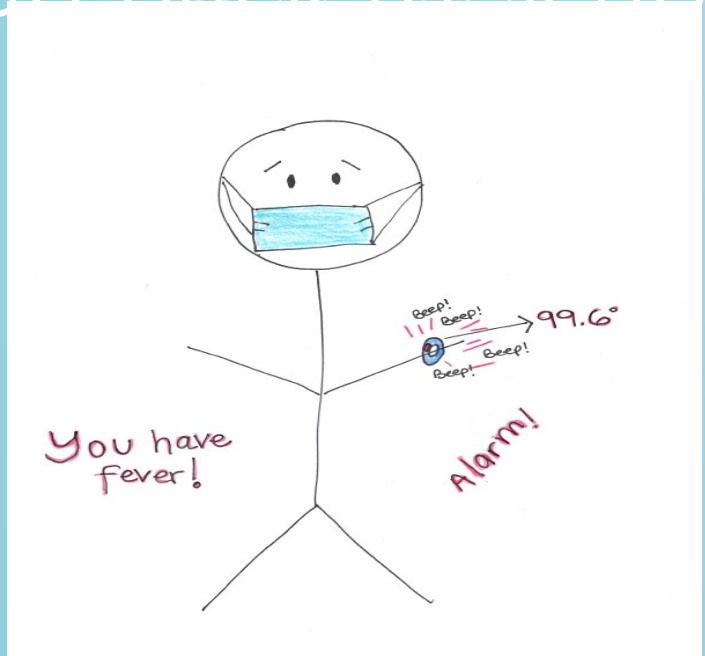
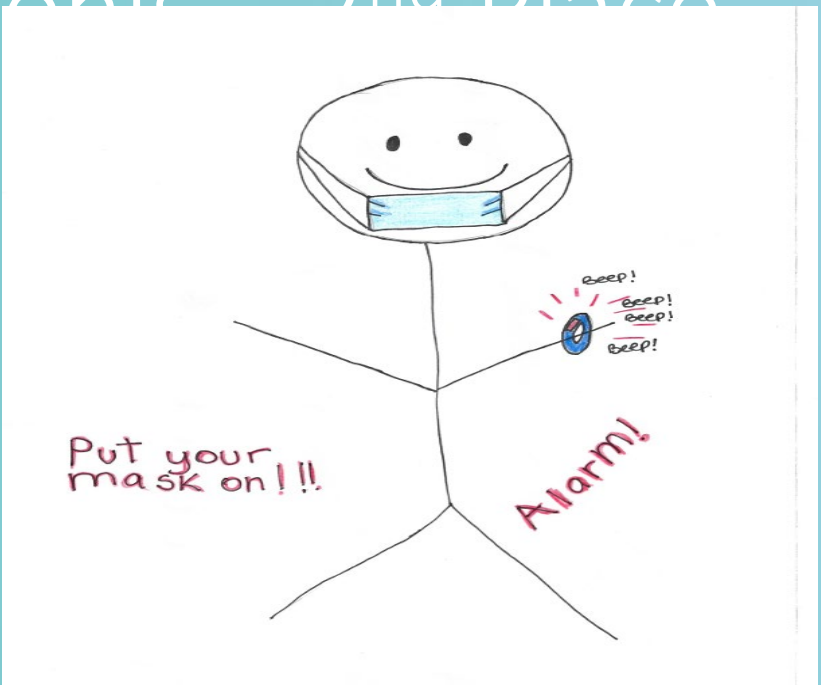
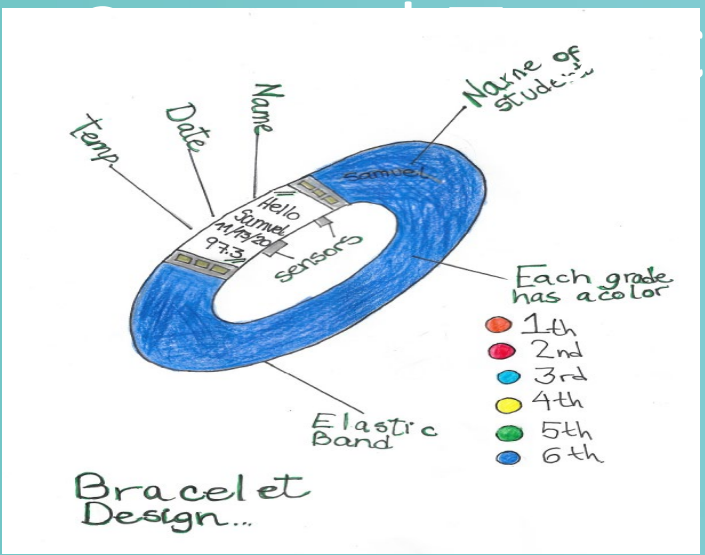
GROWING DISCOVERERS, INNOVATORS, AND MAKERS FOR THE 21ST CENTURY

STEM ILLINOIS

at Urbana-Champaign

SCIENCE • TECHNOLOGY • ENGINEERING • MATH

2nd Place Go Back to School





Hector Davila



THIRD PRIZE WINNER

THIS IS PRESENTED TO

Hector Davila

for exemplary performance in the
Community Mapping Make-A-Thon
Hosted by the STEM Illinois Nobel Project

RUBY MENDENHALL

Co-Director of STEM IL

LISA GOODPASTER

Associate of Project
Management

MOLLY GALLOWAY

Program Evaluator



GROWING DISCOVERERS, INNOVATORS, AND MAKERS FOR THE 21ST CENTURY

STEM ILLINOIS

at Urbana-Champaign

SCIENCE • TECHNOLOGY • ENGINEERING • MATH

Hector Davila – 3rd Place – Masks for All



Courtesy Photo

Problem: Some individuals do not wear masks.

Solution: One way of doing so would be to put a box with free, individually wrapped, masks in it. This would be similar to the Little Free Library, which can now be found all over the community. T

Impact: This will greatly help my Champaign-Urbana community because the number of COVID cases keeps rising and we all need to stay in this together. As our governor Pritzker says we have to be “All in Illinois” to stop this spread of COVID-19.

We Need a Social Movement that Democratizes Health Education!!

NAACP – Health Committee

Black Panthers – Free Clinics, Campaigns (SSD), etc.

Foster Black Wellness Ecosystem – BMWC

Train Corps of Community Health Workers - 100,000

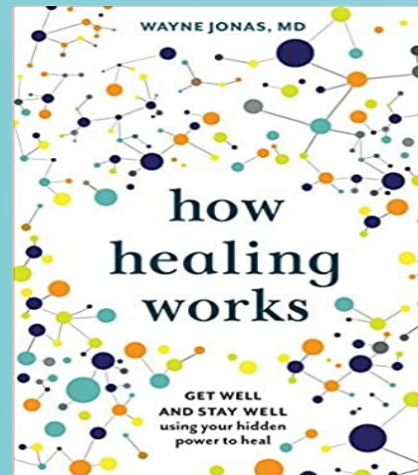
- Citizen/Community Scientists
- Neuroscience, Genomics and Epigenetics
- Psychological First Aid (CU)
- Psychological Recovery (CU)
- Verbal First Aid (Pager & Acosta)
- Cultural Practices - (heal body, mind & soul)

Mechanisms

- Community Centers & Clinics
- Online Education & Certificate
- Media (ex. School House Rock)



I'm Just A Bill: <https://www.youtube.com/watch?v=FFroMQIKiag>



JOIN THE TRAUMA & RESILIENCE INITIATIVE FOR

Psychological First Aid (PFA) & Skills for Psychological Recovery (SPR)

TRAINING

MON. OCT. 26TH 10:30 AM - 12:30 PM
&
FRI. OCT. 30TH 1:00 PM-4:00 PM

You will get a Certificate of Completion in PFA & SPR!

PFA & SPR are evidence-based practices designed to address community-level trauma and mental health needs, and triage those who are most in need of care.

You must attend both sessions.
(CEUs are available for this training)

This training will re-enforce the skills needed to conduct PFA & SPR!

You can also complete the full online training at the link below!

<https://learn.nctsn.org/course/index.php?categoryid=11>

Register for free at
<https://www.eventbrite.com/e/healing-solutions-virtual-fall-training-tickets-122712074117>

PLEASE CALL/TEXT FOR MORE INFO
(217) 673-7122
OR EMAIL:
SAMVRA@TRAUMARESILIENCEINC.ORG

© Trauma & Resilience Initiative receives grant funding from the Champaign County Mental Health Board and the Champaign County Community Coalition.

Karen Simms, Trauma Resiliency Initiative

Community Health Workers 100,000



Nature

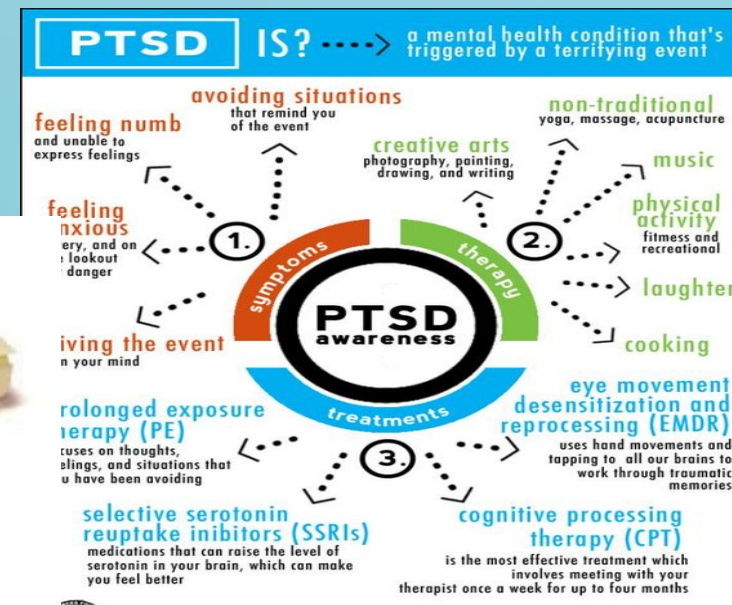
“Coming Home to the Body”- Movement Markera Jones



Joy, calming
Self-care – “students made the treasure boxes”
Link to Latest Science
Verbal First Aid



Infographics



Cultural Wisdom



Aquaponics



Unity in Action Magazine Graphic Art (Tanya Parker)

USING ART AS A WAY TO SPREAD PUBLIC AWARENESS AND ADDRESS THE HEALTH ISSUE (COVID)

THIS ART COMPETITION WILL
ALLOW FOR THE ENTIRE
COMMUNITY TO GET
INVOLVED OF ALL AGES
HAVING A CHANCE TO
EXPRESS AND SAVE LIVES
USING FUN ACTIVITIES TO
ADDRESS SERIOUS ISSUES

2021

For more information about this opportunity for artists,
please visit unityinactionmagazine.com.

Deadline for
submissions:
APRIL 15th

Artists
submissions
should feature
COVID-19 prevention
with the message
"PROTECT &
RESPECT"
in any language.

Prizes will be given
to art that highlights
unity and diversity.

**ART
for
Health
&
Unity
Competition**

SPONSORS

 **UNIVERSITY OF ILLINOIS**

 **UNITY IN ACTION**
MAGAZINE

There will be
two categories:
17 and under and
18 and up, with
three winners
in each category.

Winners will receive
cash prizes of
\$200 (up to \$175) Cash, and
\$100 Cash.
Winning artwork will be featured
in public health campaigns.

Unity in Action Magazine Host Event (Tanya Parker)

I



**ART, SCIENCE & TIME
DEMOCRACY DATE
FESTIVAL PLACE**

**HOSTED BY
UNITY IN ACTION
MAGAZINE**

- ★ MUSIC PRODUCTION
- ★ GRAPHIC DESIGN
- ★ JOURNALISM
- ★ PHOTOGRAPHY
- ★ FILMMAKING
- ★ ADVOCACY

ADDITIONAL INFORMATION



DESIGN THINKING
Integrating Human-Centered Design

Paradigm Shift – Democratize Resources



“Billion Dollar Garage”

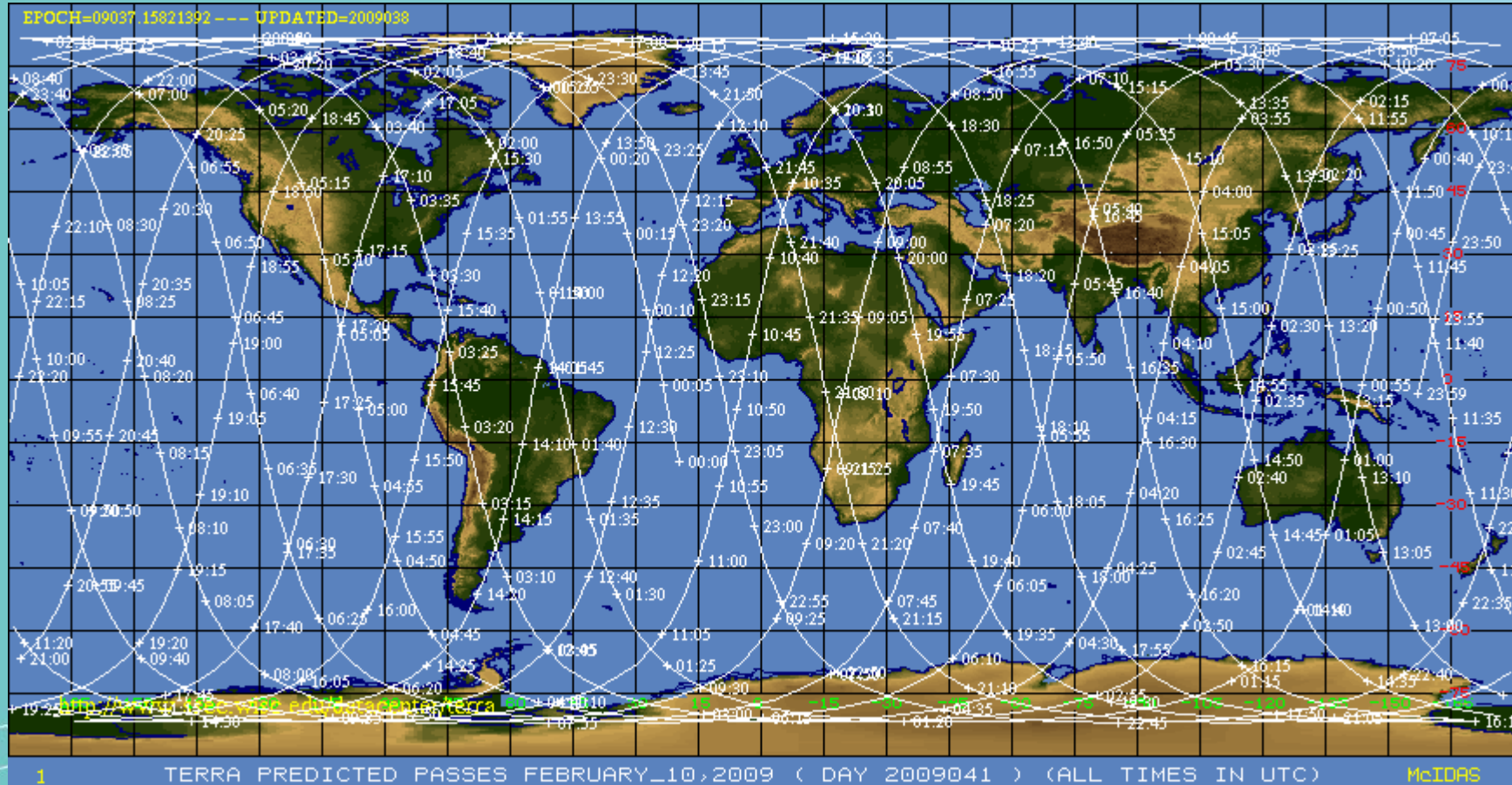
New Node: **Designing Resiliency and Well-being**

Social Determinants of Health

Health Disparities

Health Equity

Forage i Satellite – Keith Jacobs



This Photo by Unknown Author is licensed under [CC BY-NC](https://creativecommons.org/licenses/by-nc/4.0/)



This Photo by Unknown Author is licensed under [CC BY-NC](https://creativecommons.org/licenses/by-nc/4.0/)

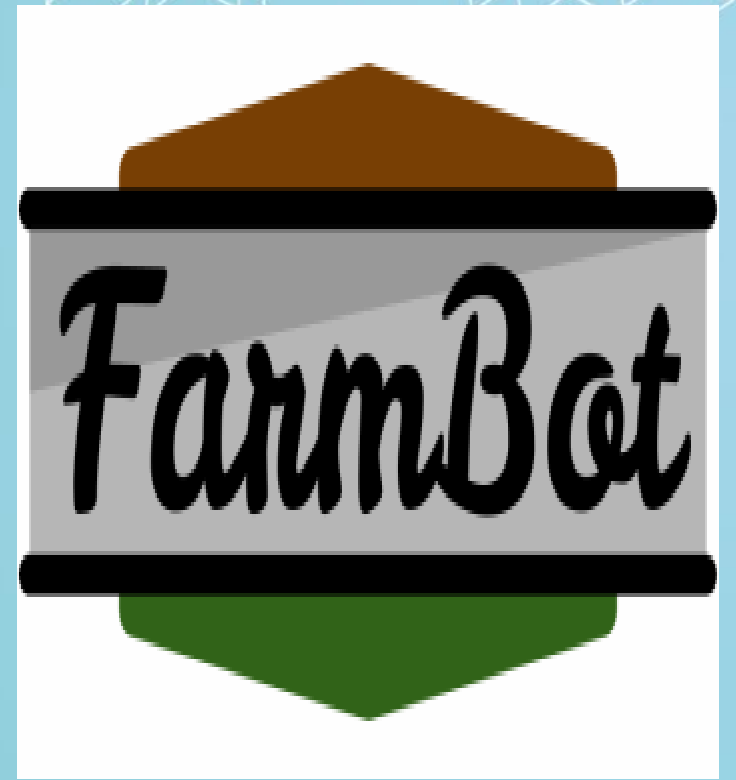
FarmBots – Keith Jacobs



[This Photo](#) by Unknown Author is licensed under [CC BY-SA](#)



[This Photo](#) by Unknown Author is licensed under [CC BY-SA](#)



[This Photo](#) by Unknown Author is licensed under [CC BY-SA-NC](#)

Industrial Fabrics

Timothy Stark & Farshid Vahedifard
Civil and Environmental Engineering

Black Farmers
Reclaim 1,000 Acres

1 Acre = 43,560 Feet
Total = 43,560,000 Feet



Greenhouses



Weed Control



Insect Protection



Blueberry Netting



Henrietta Gomez and Gilbert Suazo, Sr., receive a Taos Pueblo squash in 2018. ANDI MURPHY

Native American's
Efforts to Reclaim Land & Seeds



Frances Perkins (1880-1965)

Secretary of Labor

1933-1945

Re-Imagining Society

PBS Documentary – Summons: Frances Perkins & the General Welfare: <https://francesperkinscenter.org/summoned/>

New Deal – Social Security Act & other policies fundamentally changed this society

- Farmers
- Immigrants
- Black women migrating from the south
- Residents in Chicago slums
- Child laborers
- Elderly
- Unemployed
- Uninsured

How: conversations, engagement, thoughtfulness, empathetic, boldness, etc.

“Sacred Work” – Frederick Douglass to President Lincoln Third Reconstruction & Renaissance



Title: “New Opportunities:
Artist: Danielle Hunter



Facebook

Assistance Needed

- Project Manager Role
- FarmBots – assemble FarmBot, teach Python
- Satellites – teach Python
- Community Health Workers – Training, Toolkits, DREAM Accelerator (entrepreneurship and wealth creation)
- Research Team – transcribing interviews, analyzing data, co-authoring papers, documentaries, etc.

Questions

?

?

Answers

?

THANK YOU

University of Illinois, U.S. Department of Agriculture, Local Extension Councils Cooperating. University of Illinois Extension provides equal opportunities in programs and employment. If you experience any problems accessing or receiving the information in this course, or have feedback on the design, please email extension@illinois.edu for assistance.

© Copyright 2020 University of Illinois Board of Trustees



Illinois Extension
UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN