Building community health and resilience beyond COVID-19

Virtual session | May 27, 2:00 p.m. EST

CleanMed Virtual Series

Gary Cohen
Health Care Without Harm founder

Denise Fairchild
Emerald Cities Collaborative president and CEO

Helga Garcia-Garza
Agri-Cultura Network director

Jon Utech
Cleveland Clinic Office for a Healthy Environment senior director
Denise Fairchild is the inaugural president of Emerald Cities Collaborative (ECC), a nonprofit organization based in D.C. with affiliates in urban centers. She works to make U.S. cities environmentally sustainable, build resilient local economies, and ensure equity inclusion in both the and outcomes of a green and healthy economy. Fairchild has a 40-year successful track record with innovative programs in sustainable community development.
BUILDING COMMUNITY HEALTH AND RESILIENCE BEYOND COVID-19

Clean Med 2020 Webinar

Denise G. Fairchild, Ph.D.
EMERALD CITIES COLLABORATIVE MISSION

- Green Our Cities
- Build Our Communities
- Strengthen Our Democracy

5/28/20
TRADITIONAL RESILIENCE PLANNING

Continuity of Operations

Disaster Recovery

Cyber Incident Response

Business Continuity

Crisis Communications

Critical Infrastructure Protection

Information System Contingency

Occupant Emergency

Contingency Planning and Resilience

5/28/20
THE EX extractive ECONOMY
ANCHORS

A NEW SOCIAL COMPACT

COMMUNITY
ANATOMY OF A HEALTHY/RESILIENT COMMUNITY

Social

Bearable

Equitable

Sustainable

Environment

Economic

Viable

5/28/20
HEALTHY SOCIAL INFRASTRUCTURE

Creating a community where people know and care for each other

Community Leadership

Political Empowerment

Intermediary Institutions

Climate Resilience & Adaptation

Hiring Networks

Mental & Physical Health

Efficacy & Self Worth

Crime Rates
HEALTHY ECONOMY
HEALTHY NATURAL & BUILT ENVIRONMENTS

Health effects of pollution

Air pollution
- CO
- Particulate matter
- Ozone
- Volatile organic compounds
- NOx
- Lead
- Nerve damage
- Respiratory illness
- Cancer risk
- Nausea
- Skin irritation

Water pollution
- Bacteria
- Parasites
- Chemicals

Soil contamination
- Pesticides

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Helga Garcia-Garza

Garcia-Garza co-manages the day-to-day operations of the Agri-Cultura Network. She oversees the development of the networks, programs, and community events, which include La Cosecha and a monthly cooking class. Garcia-Garza has a long history as a community organizer and an environmental and food justice advocate.
Agri-Cultura Network

Founded in 2011

9 cooperative South Valley farms, and 36 allied farms from urban and rural Rio Grande communities

Sells to Albuquerque Public Schools, hospitals, a 300-member CSA, restaurants, and retail
Partnering with health care

La Cosecha CSA
Healthy Here Mobile Farmers Market
Healthy Neighborhoods Albuquerque
Nutrition education
Farm-to-institution
Eco-Wellness Center
Community benefit case study

Honoring local knowledge, growing health, and improving equity

Reference:
Project goal

To improve community health, resilience, wealth, and self-sufficiency by placing locally and sustainably grown produce and products into dollar stores in the South Valley of Albuquerque as an example, and building a strategy and relationships to eventually expand the project to other communities.

Reference:
Dollar General annual shareholder meeting

Reference:
Building a wellness ecosystem

Reference:
https://www.youtube.com/watch?v=cvLYeS9GmJo&feature=youtu.be
Cleveland Clinic Office for a Healthy Environment senior director

Jon E. Utech

Since 2013, Jon Utech has led Cleveland Clinic’s sustainability program, covering energy demand reduction, recycling, LEED, climate resilience, sustainable food, green supply chain, water reduction, engagement, and reporting. He also leads the organization’s climate action, which includes climate resilience planning, energy efficiency, and renewable energy.
Building Community Resilience

Jon Utech, MBA, MPOD
Senior Director, Office for a Healthy Environment
Cleveland Clinic
Cleveland Clinic Today

- $10 Billion+ Revenue
- 66,000 Caregivers
- 9 Million Total Visits
- Leader in US News & World Rankings:
  - #2 hospital overall
  - #1 in heart for 25 consecutive years
  - 12 other specialties rank in top 10
- Patients travel from 170 countries
- 75+ spin off companies since 2000

Locations:
- Cleveland, Northeast Ohio
- Indian River, Martin, Florida
- Las Vegas, Nevada
- Weston, Florida
- Toronto, Canada
- Abu Dhabi
- London
- Abu Dhabi
Sustainability in HealthCare = Leveraging Determinants of Health

Population Health

- 40% Health Care
- 30% Health Behaviors
- 20% Socio-Economic Factors
- 10% Physical Environment

Source: “Community Health Centers Leveraging the Social Determinants of Health”
Cleveland Clinic Climate Change Strategies

Human Interference

CLIMATE CHANGE

Hurricanes/ Tornados
Heat Waves/ Air Quality
Sea Level Rise/ Flooding
Infectious Disease Vectors

IMPECTS

VULNERABILITIES

Planned ADAPTATION
Preparing for
- Infrastructure
- EM/Training
- Community Health Risks
- Clinical Practice

POLICY Responses

MITIGATION
Reducing Carbon Footprint
- Measure Carbon Footprint
- E. Efficiency
- Renewables
- Green Building

Source: Adapted from IPCC
TACKLING CLIMATE CHANGE COULD BE THE GREATEST GLOBAL HEALTH OPPORTUNITY OF THE 21ST CENTURY

The Lancet, June 2015
Energy Efficiency: Mitigation – 20% Goal

- LED Retrofits
- OR Setbacks
- Chiller Optimizations
- Filter Optimizations
- Retro-Commissioning
- Building Monitoring
- Temperature Control

22%
Implementing the largest LED retrofit in healthcare

- 450,000 tubes/can lights
- LED Tubes made in Solon, Ohio by Energy Focus
- Creation of 20-25 manufacturing and installation jobs
- Saved $3.5 Million/year in energy costs
- Very low failure rate (0.2%) reduced maintenance cost
- Health impact from less brown power
- Flicker free light for caregivers
Florida: flooding and hurricane risk

Source: University of Florida Geoplan Center, National Hurricane Center
Coral Springs Property Flood Assessment

Cleveland Clinic Coral Springs Site
Groundwater Flood Risk

2016

This property is projected to experience up to 5 days of groundwater flooding as deep as 8 inches in 2016.

2035

This property is projected to experience up to 6 days of groundwater flooding as deep as 1.3 feet in 2035.

Cleveland Clinic: Coral Springs Site

# Days Flooding Per Year

*Groundwater flooding*
Coral Springs: Built Above Code

"Our resilience to withstand extreme weather is critical, we will go beyond code in many ways to make our buildings healthier and more affordable to operate."

Frank Aucremanne, Executive Director, Cleveland Clinic
Trump's easing of building regulations could backfire during severe flooding
Modern Healthcare, August 27 2017
Anchor Institution Mission

• Anchor institution strategy to apply an institution’s
  - Economic power
  - Human Capital

• For the mutual benefit of both the community and the enterprise
CLEVELAND’S GREATER UNIVERSITY CIRCLE INITIATIVE

Building a 21st Century City through the Power of Anchor Institution Collaboration
“We understand our workforce comes from the community and we want to see the community around us succeed. We really believe the investments here pay off over the long term for building this community and for our organization.”

— Delos (Toby) M. Cosgrove, MD, CEO
Cleveland Clinic
Greater University Circle Initiative

Targeted Neighborhoods
Priorities for Economic Inclusion

- **Live Local**: Connect! Greater University Circle
  - Attract new residents and support existing residents in quality housing
- **Hire Local**: Link residents to jobs and income opportunities
- **Buy Local**: Increase the capacity and use of local businesses
- **Connect!**: Connect people, neighborhoods and institutions in a vital network

The Greater University Circle is at the center, linking all these priorities together.
Community Climate Engagement
2017 Cleveland Healthcare Resilience Summit
Evergreen: Green City Growers
Evergreen+Cleveland Clinic Laundry
Langston Hughes Community Center
Healthy Community Initiative (HCI)

A collaboration between Cleveland Clinic and Community Partners

- Health education
  - Chronic health conditions
  - Infant mortality
  - Opiate abuse
- Nutrition
- Fitness
Cleveland Clinic

Every life deserves world class care.
Discussion