

# Welcome to the NGCP National Webinar

**Celebrate Global Accessibility Awareness Day**  
Tuesday, May 18, 2021

Please respond to the poll and introduce yourself in the chat.

Use the chat to ask questions, respond to one another, and share resources.



# NGCP Vision

The National Girls Collaborative Project **brings together organizations** committed to informing and encouraging girls to pursue careers in science, technology, engineering, and mathematics (STEM).



# NGCP Goals

1. **Maximize access** to shared resources within organizations interested in engaging girls in STEM.
2. **Strengthen the capacity** of programs by sharing exemplary practice research and models.
3. **Use the leverage of a network** to achieve gender equity in STEM.



# NGCP Activities



## Increased Collaboration Benefits Girl-Serving STEM Programs

Helped us better serve girls



82%

Increased girls' interest in STEM



78%

Helped my program be more effective



77%

Increased girls' confidence in STEM



77%

Source: NGCP 2015 Annual Survey

# National Network of Collaborative Teams



NATIONAL GIRLS COLLABORATIVE PROJECT

# Speakers:



## **Sheryl Burgstahler, Ph.D.**

Founder and Director of the DO-IT team and the IT Accessibility Technology Team out of the University of Washington



## **Crystal R. Emery, p.g.a.**

Founder and CEO of URU The Right to Be, Inc, activist, and filmmaker



# Accessible & Inclusive Learning

National Global Accessibility Day 2021

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Sheryl Burgstahler, Ph. D.  
sherylb@uw.edu

# 2 units in Accessible Technology Services

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## IT Accessibility Team

- 1984–
- Funded by UW

## DO-IT Center

- USA, 1992–  
Supported with federal, state,  
corporate, private funds
- DO-IT Japan, 2007–
- Center on UD in Education, 1999–



**DO-IT**

Disabilities  
Opportunities  
Internetworking  
Technology

# In an “inclusive” experience, everyone

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- who meets requirements, **with or without accommodations**, is encouraged to participate
- feels welcome
- is fully engaged in accessible & inclusive activities



# One-minute history of the evolution of responses to human differences

- Eliminate, exclude, segregate
- Cure, rehabilitate, accommodate
- Social justice:  
Inclusion & universal design



# Accommodation-focused approach to access

Adjust an existing product or environment for a specific person...Common in online learning:

- remediating inaccessible documents
- captioning videos



# Definition: Universal design (UD) =

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“the design of products & environments to be usable by all people, to the greatest extent possible, without the need for adaptation or specialized design.”

The Center for Universal Design

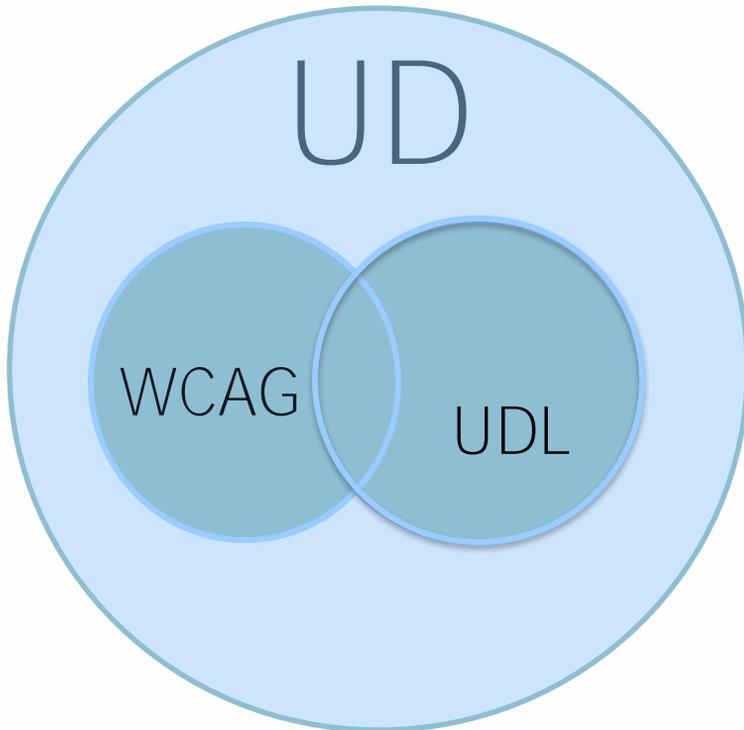
[www.design.ncsu.edu/cud](http://www.design.ncsu.edu/cud)

UNIVERSITY of WASHINGTON



# 3 sets of principles underpin UD guidance for all aspects of education

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- 7 Universal Design
  - 3 Universal Design for Learning
  - 4 Web Content Accessibility Guidelines

## In a nutshell,

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1. Provide multiple ways for participants to learn & to demonstrate what they have learned.
2. Provide multiple ways to engage.
3. Ensure all technologies, facilities, services, resources, & strategies are accessible to individuals with a wide variety of disabilities.

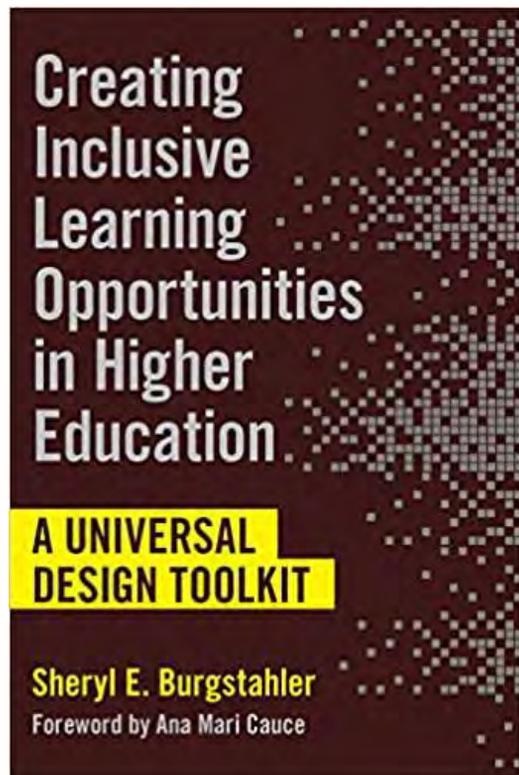
An attitude, a framework, a goal, a process—UD:

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- Supports social justice
- Values diversity, equity, & inclusion
- Promotes best practices.
- Does not lower standards
- Is proactive
- Can be implemented incrementally
- Benefits everyone
- Minimizes the need for accommodations

# Resources

- *Center for Universal Design in Education*, [uw.edu/doit/cude](http://uw.edu/doit/cude)
  - **20% book discount with code INLEHE**
  - *A UDHE Framework*
  - *20 Tips for Teaching an Accessible Online Course*
- Email [sherylb@uw.edu](mailto:sherylb@uw.edu) to join the UDHE online community of practice



Celebrating Global Accessibility  
Awareness Day:

## How We Move Towards a More Accessible World

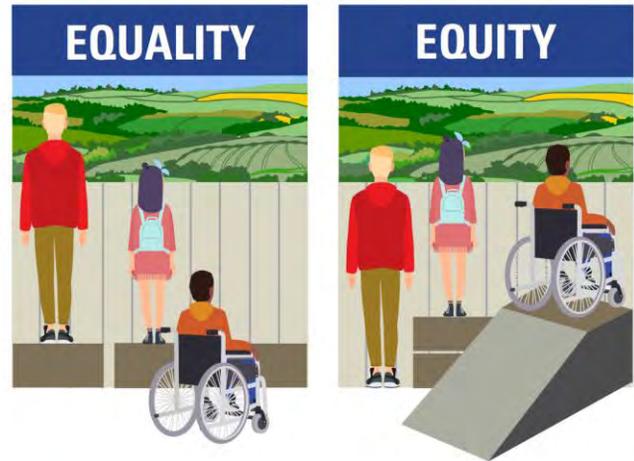
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Crystal R. Emery, p.g.a

Founder and CEO, URU The Right to Be, Inc.

# Common Language

- **Diversity:** All the ways that people are different and the same at the individual and group levels
- **Equity:** Fair and just treatment of all people
- **Accessibility:** Giving equitable entry to everyone along the continuum of human ability and experience
- **Inclusion:** Ensuring diverse individuals fully participate in all aspects and experiences



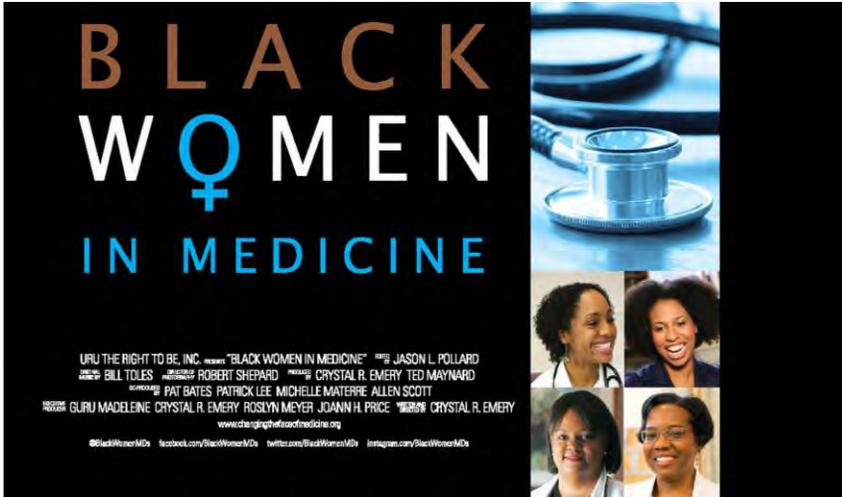
# Understanding Intersectionality

*“The impact of the triple jeopardy syndrome cannot be overstated... as an African American with a disability, [one] can never can be quite sure if their race, gender or disability is hurting their chances for advancement.”*

– Dr. Donna Walton



RespectAbility, 2018



Premiere of *Black Women in Medicine*, 2016

# Inequity in Education and STEM

- There are 7 million differently-abled students in the US, comprising 14% of national public school enrollment.
- More than 56 million Americans live with some form of disability. 5.4 million are Black or African Americans.
- Students with disabilities are about twice as likely to be suspended as those without disabilities.
- Many teachers, instructors, and professors are frequently unable, unprepared, or otherwise ill-equipped to recognize and address the needs of students with disabilities. As a result, course content is often inaccessible.
- Individuals with disabilities are underrepresented in STEM fields (NSF, 2017).



# Emerging Researchers National Conference in STEM, 2020



# Questions to Ask When Designing Programs:

- What environmental barriers exist for my students in this learning environment?
- What assumptions am I making about my students?
- How can I adapt this lesson or activity to allow my students different opportunities to engage and connect with the learning material?
- What is the objective of this lesson or activity?
- What can be changed about the lesson or activity to make it inclusive to all learners while still meeting the objectives?
- What flexible measures can I offer to my students so that they can demonstrate their understanding?



National Academy of Science, 2019

# Creating an Inclusive Learning Climate

- **Connect instruction to people, scenarios, and experiences that reflect human diversity** (e.g., race, gender, ethnicity, ability)
- **Evaluate instructional practices for unconscious bias** (e.g., racial or gender stereotypes, differing expectations based on sex or physical abilities, etc.)
  - “I need some strong men to come move this equipment.”
  - Assuming people with the same skin color, sex, etc., have similar likes and dislikes
  - Images and lessons that include predominantly white and/or male scientists
  - Expecting male students to problem solve and work through incorrect answers, while providing the right answer to female students immediately
  - Assuming students with a particular disability are automatically unable to participate or accomplish specific goals (e.g., “She can’t write. She has Down’s Syndrome.” “He’ll never understand sound waves. He’s deaf.”)



Crystal and Governor Tom Ridge of Pennsylvania.

National Organization on Disability, 2017



RespectAbility, Capitol Hill, 2018

# Call to Action

- Seek out opportunities to learn about barriers
- Work with an open mindset to understand diverse experiences
- Serve as a champion and ally for this work in your educational community
- Set specific and tangible goals with clear success criteria in your programs around making steps to improve diversity, equity, accessibility, and inclusion

# URU The Right To Be, Inc.

Contact us at [info@uruglobal.org](mailto:info@uruglobal.org)

Visit our website: [www.urutherighttobe.org](http://www.urutherighttobe.org)



# Q&A

# Upcoming NGCP Events

**Representation Matters! Highlighting  
the IF/THEN Collection**

May 24, 2021



**Curious about Curiosity Camp?  
IF/THEN Collection Resources to  
Support Girls in STEM**

June 22, 2021

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**Act Locally! with NGCP Local Collaboratives**

June 16, 2021

