Integrating Cloud and Container Technologies into University Numerical Weather Prediction (NWP) Curriculum

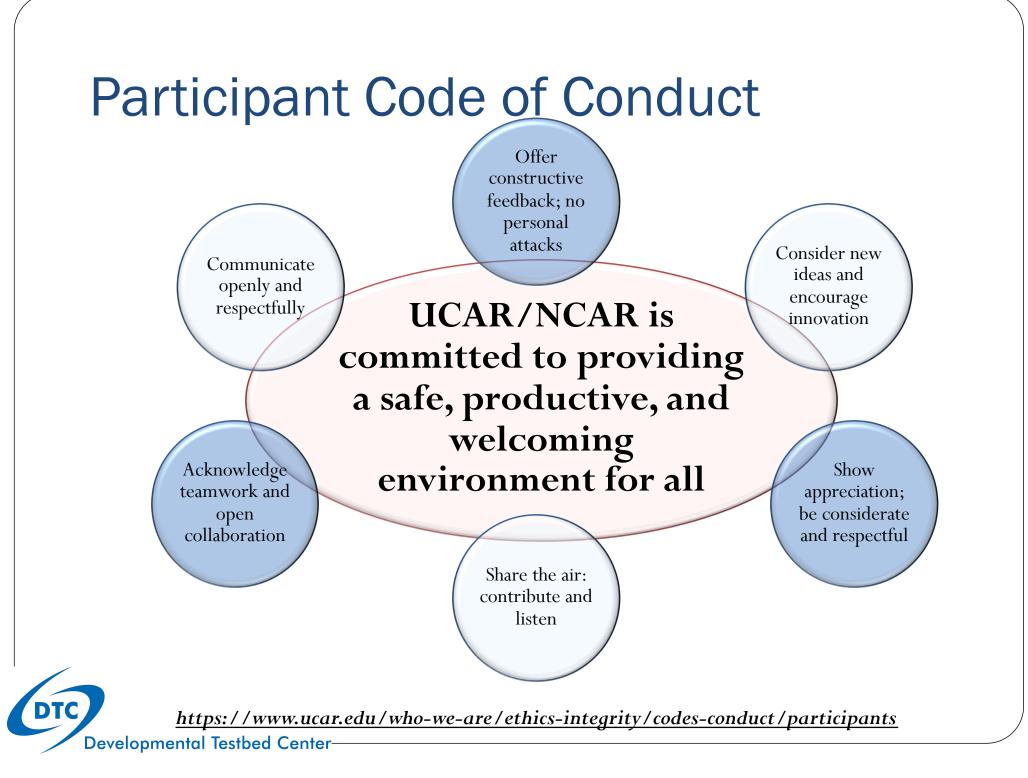
Welcome!

Kate Fossell, John Halley Gotway, Michelle Harrold, Mike Kavulich, and Jamie Wolff

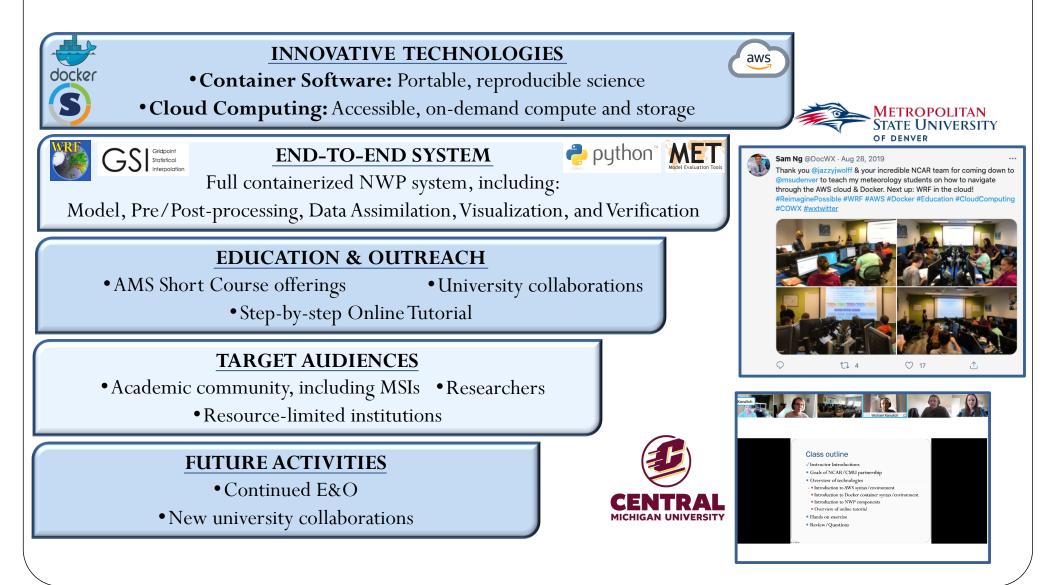
DTC Workshop Organizing Committee

Developmental Testbed Center—

7-9 June 2021



Why are we here?



Meeting Expectations

- Please turn your video on when speaking and during breakouts!
 - We would love to see your faces to facilitate conversation
- We want to hear from you!

Developmental Testbed Center

- Please raise your hand when you would like to speak
- Remember to remain muted unless speaking!
 - To avoid distracting background noise
- Please remain focused and be engaged!
 - We look forward to a productive workshop







Logistics

- Google Meet platform will be used throughout the workshop (plenary, hands-on practice, and breakout discussions)
 - The same link will be used every day (link in email)!
 - Feel free to use the chat feature to post questions/comments.
 - During hands-on practice, we can move individuals into a Q&A breakout room for screensharing, as needed.
 - For the breakout sessions, we will be providing DTC facilitators in each but we will solicit a scribe & spokesperson to help for the report outs.
- Shared Google Drive folder (link in email)
 - Resource materials
 - Logging onto AWS: IP address and Password
 - Breakout materials
 - Group assignments
 - Slide template with questions for consideration to be used for report-out
 - Presentations
 - Will also be shared on the event page agenda after the event

Agenda Overview

Time (MT)	Mon, 7 June	Tues, 8 June	Wed, 9 June
9:00	Welcome Introductions (Jamie Wolff - DTC)	Current curriculum approaches (Tom Guinn - Embry-Riddle Aeronautical University)	
9:10			Introduction to AWS Academy/Educate (Mike Bryant and John Bjerke - AWS)
9:20 9:30		Current curriculum approaches (John Mejia - Desert Research Institute)	
9:40	Overview of DTC cloud/container capabilities (Mike Kavulich, Jr DTC) Case overview (Michelle Harrold) Break Logging onto AWS (Kate Fossell - DTC)	Q&A on current curriculum approaches	
9:50 10:00		Testimonial #1 (Sam Ng - Metropolitan State University-Denver)	
10:20		Testimonial #2 (John Allen - Central Michigan University)	Breakout #3
10:30		Q&A on testimonials	
10:40		Break	
10:50			
11:00			Break
11:10		Breakout #2	
11:20			
11:30	Hands-on practice with DTC cloud/container capabilities (Michelle Harrold - DTC)		Outbrief for Breakout #3
11:40			
11:50		Outbrief for Breakout #2	
12:00	"Lunch" Break		
12:10			Discussion: Next steps
12:20		"Lunch" Break	
12:30			
12:40			"Lunch" Break
12:50			
13:00	Continued: Hands-on practice with DTC cloud/container capabilities		
13:10			
		Demonstration of customization options (Michelle Harrold - DTC)	
13:30			
13:40 13:50			Help Desk / Open Forum (Hands on practice; Specific questions)
13:50	Breakout #1		
14:00		Hands-on practice: Customization of case 1, Run new case	
14:10			
14:30			
14:40	Outbrief for Breakout #1		
14:50			
15:00	End of Day	End of Day	End of Day
			· · · · · · · · · · · · · · · · · · ·

Developmental Testbed Center-

DTC

Introductions

• Invite you to turn on your camera, unmute, and say hi!

- Name, title, affiliation
- Facilitators:

Kate Fossell John Halley Gotway Michelle Harrold Mike Kavulich Jamie Wolff

• Participants



Registered Participant Institutions

• We are excited to see a number of institutions represented!

Amazon Web Services Central Michigan University **Desert Research Institute** Embry-Riddle Aeronautical University GAMA1 George Mason University Indian Institute of Technology – Mumbai Inter American University of Puerto Rico Jackson State University Metropolitan State University of Denver Michigan State Military University of Technology – Warsaw National Center for Atmospheric Research National Oceanic and Atmospheric Administration **Purdue University** University of Miami Space Applications Centre - India St. Cloud State University University of Albany University of California Davis University of Colorado Boulder University of Hawaii University of Michigan University of Utah University of Washington Visayas State University York University