

# 2022 Climate Leaders Symposium Agenda

October 10-11, 2022

Hunt Library, NC State University

Monday, Oct 10, 2022

7:30 am	Registration Opens, Student Poster and Team Set-Up		Hunt Library Location
7:30 – 8:10 am	Hot Buffet Breakfast		Duke Energy Hall (2nd Floor)
8:15 – 8:30 am	<b>WELCOME, OPENING REMARKS, AND PLENARY INTRODUCTION</b> Chancellor <u>Randy Woodson</u> , NC State University KIETS Director <u>Ruben Carbonell</u> , NC State University		Auditorium (1st Floor)
8:30 – 9:25 am	<b>Plenary Talk</b> 8:30-8:50, <u>Ko Barrett</u> , Senior Advisor for Climate, National Oceanic and Atmospheric Administration (NOAA) 8:50-9:10, <u>Elizabeth Biser</u> , Secretary, NC Department of Environmental Quality 9:10-9:25, Q&A Session		Auditorium (1st Floor)
9:25 – 10:35 am	<b>SESSION I: Climate Science</b> <i>Moderator: <u>Roy He</u>, College of Sciences, NC State University</i>		Auditorium (1st Floor)
	9:25-9:30	Session Overview	
	9:30-9:50	<u>Marshall Shepherd</u> , [Virtual (live) Presentation] College of Art and Sciences, University of Georgia, <i>“The Extreme Weather - Climate Gap: Intersections of Risk and Vulnerability”</i>	
	9:50-10:05	<u>Gary Lackmann</u> , College of Sciences, NC State University <i>“Future Weather Extremes”</i>	
	10:05-10:20	<u>Natalie Nelson</u> , College of Agriculture and Life Sciences, NC State University, <i>“Rising seas, changing runoff, and the estuaries in between”</i>	
	10:20-10:35	Panel Q&A	
10:35 – 10:55 am	<b>NETWORKING BREAK</b>		Duke Energy Hall (2nd Floor)
10:55 – 12:05 pm	<b>SESSION II: Ecosystem Responses</b> <i>Moderator: <u>Dave Eggleston</u>, College of Sciences, NC State University</i>		Auditorium (1st Floor)
	10:55-11:00	Session Overview	
	11:00-11:20	<u>Cisco Werner</u> , Chief Science Advisor, Fisheries, National Oceanic and Atmospheric Administration (NOAA) <i>“Climate and Fisheries: evolving our science advice”</i>	
	11:20-11:35	<u>Marcelo Ardon</u> , College of Natural Resources, NC State University <i>“Ghost forests as indicators of wetland resilience in the face of sea level rise and climate change”</i>	
	11:35-11:50	<u>Chris Osburn</u> , College of Sciences, NC State University, <i>“Lingering effects of extreme weather in coastal waters”</i>	
	11:50-12:05	Panel Q&A	

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Monday, Oct 10, 2022 (continued)

12:15 – 1:25 pm	<b>LUNCHEON</b> 12:20-12:55 Introduction/highlights of CLP fellows 12:55-1:15 Presentation by <u>Stan Posey</u> , NVIDIA, [Virtual (live) Presentation] <i>“NVIDIA Earth-2 Digital Twin Initiative”</i> 1:15-1:25 pm Q&A Session		Duke Energy Hall (2nd Floor)
1:25 – 2:15 pm	<b>POSTER SESSION</b>		
2:20 – 3:30 pm	<b>SESSION III: Climate Solutions</b> <i>Moderator: <u>Jeremiah Johnson</u>, College of Engineering, NC State University</i>		
	2:20-2:25	Session Overview	
	2:25-2:45	<u>Wei-Jun Cai</u> , School of Marine Science & Policy, University of Delaware, <i>“Ocean uptake of anthropogenic carbon and ocean-based carbon dioxide removal (CDR)”</i>	
	2:45-3:00	<u>Fanxing Li</u> , College of Engineering, NC State University, <i>“Process intensification and emission reduction enabled by redox-active mixed metal oxides”</i>	Auditorium (1st Floor)
	3:00-3:15	<u>Veronica Augustyn</u> , College of Engineering, NC State University, <i>“Intercalation Materials for Electrochemical Energy and Environmental Applications”</i>	
	3:15-3:30	Panel Q&A	
3:40 – 4:50 pm	<b>SESSION IV: Socioeconomics and Policy</b> <i>Moderator: <u>Erin Seekamp</u>, College of Natural Resources, NC State University</i>		
	3:40-3:45	Session Overview	
	3:45-4:05	<u>Amanda Martin</u> , North Carolina Office of Recovery and Resiliency, <i>“Climate Resilience in North Carolina: Policy Leadership and Challenges”</i>	
	4:05-4:20	<u>Gavin Smith</u> , College of Design, NC State University, <i>“The Buyout of Flood-prone Housing: Lessons for Managed Retreat”</i>	Auditorium (1st Floor)
	4:20-4:35	<u>Jonathan Casper</u> , College of Natural Resources, NC State University, <i>“Sport and Environmental Sustainability: A platform for climate change”</i>	
	4:35-4:50 Panel Q&A		
5:00 – 6:00 pm	<b>Innovation Showcase and Reception</b>		Duke Energy Hall (2nd Floor)
6:00- 7:30 pm	<b>Dinner and Networking</b>		Duke Energy Hall (2nd Floor)

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Tuesday, Oct 11, 2022

<b>8:00 – 8:30 am</b>	<b>Hot Buffet Breakfast</b>	Duke Energy Hall (2nd Floor)
<b>8:25 - 8:40 am</b>	<u>Barclay Satterfield</u> , External Innovation Technology Manager, Eastman	Duke Energy Hall (2nd Floor)
<b>8:45-10:00 am</b>	College/Center/Program introduction Session I (5-15 min each)	Auditorium (1st Floor)
<b>10:00 – 10:20 am</b>	NETWORKING BREAK	
<b>10:20-11:20 am</b>	College/Center/Program introduction Session II (5-15 min each)	
<b>11:20 – 11:45 am</b>	11:20-11:35 Presentation by James McMahon, CEO, The Climate Service (S&P Global) 11:35-11:45 Q&A	
<b>11:50 – 12:50 pm</b>	<b>LUNCHEON</b> 12:00-12:20 pm Presentation by <u>Lou Bowers</u> and <u>Sarah McElman</u> , AVANGRID : <i>“Coastal USA: Unique Challenges in Offshore Wind Development”</i> 12:20-12:30 pm Q&A Session 12:30-12:40 Sponsor Acknowledgment and Closing Remarks	Duke Energy Hall (2nd Floor)
<b>12:50-1:00 pm</b>	Intro to next year CLP program, schedule, and application process	Duke Energy Hall (2nd Floor)