SeCAPS 2024

Saturday, April 6:

7:45 a.m. - Registration (Refreshments Available)

8:15 – Welcome and Opening Remarks – Dr. Sytske Kimball, University of South Alabama

Session I: Mesoscale/Local Meteorology

8:25 – The Record-Breaking Severe Weather Marathon of June 2023 by the Numbers – *Cameron Young, NWS Tallahassee, FL*

8:40 – Uses and Applications of The South Alabama Mesonet – *Sytske Kimball, University of South Alabama*

8:55 – High resolution study on the microclimates of various plant zones on San Cristóbal Island, Galápagos Islands, Ecuador – *Steven Schultze, Abigail Kratsch, and Jade Martin, University of South Alabama; Francisco Laso, Western Washington University; Nazaret Narváez, Luis Tasipanta, and Ariel Pila, Universidad San Francisco de Quito*

9:10 – Challenges and Best Practices for Assessing Catastrophic Tornado Damage across a Vulnerable Community; Rolling Fork, Mississippi, – *Logan Poole, Ashlyn Jackson, Chad Entremont, Daniel Lamb, and Bill Parker, NWS Jackson, MS*

9:25 – Break/Networking

9:45 – **Keynote:** Wintertime Tornadoes, Storm Surveys, and How to get a Job – **John Gordon**, – NWS Louisville, KY

Session I: Communication/Society Impacts

10:30 – Can Weather-Related Fatalities Be Reduced by Rethinking How Weather is Taught in K-12 Education – *John Lanicci, S. Katie Guffey McCorrison, and Hannah Fink, University of South Alabama*

10:45 – Break/Networking

11:00 – National Hurricane Center – Mission, Recent Progress and Future Changes – *Andrew Hagen, National Hurricane Center, Miami, FL (Virtual)*

11:15 – Mess Around & Find Out: Utilizing Data For Targeted Outreach to Achieve A Weather Ready Nation – *Michael Hill, NWS Jackson, MS*

11:30 – Breaking the Grip of the Rip: Communicating the Risk of Deadly Rip Currents to Tourists – *Morgan Barry, Cody Lindsey, and Jessica Chase, NWS Mobile, AL*

11:45 - Lunch (Provided)/Networking

1:30 – **Keynote:** The Alabama Tornadoes of March 25, 2021 – *James Spann, AB3 33/40 Chief Meteorologist, Birmingham, AL*

2:15 – 50th anniversary of the April 1974 Super Outbreak – *John Lanicci, University of South Alabama*

2:30 – Break/Networking

- 2:45 Synoptic Briefing Aaron Colby and Ian Beck, University of South Alabama
- **3:30** Poster Session (*See bottom of page for details*)

5:00 - Mixer

Sunday, April 7:

8:00 a.m. - Registration (Refreshments Available)

Session III: Severe Weather Operations

8:15 – National Weather Service Forecast Office Culture and Severe Weather Warnings – *Kevin Laws, NWS Birmingham, AL*

8:30 – Considerable to Consistent: Trying to Improve Upon the Thresholds for Considerable Tag Tornado Warnings to Provide a Consistent Message to Core Partners and the Public – *Brandon Black, Jonathan Howell, and Michael Mugrage, NWS Mobile, AL*

8:45 - Keynote: Storm Interactions - Cameron Nixon, Storm Prediction Center, Norman, OK

Résumé Workshop

9:30 - Résumé/Interview Practice Workshop - John Gordon, NWS Louisville, KY

10:00 - Break/Networking

Session IV: Satellite Meteorology

10:15 – Eye in the Sky: Utilization of Remote Sensing through GIS to Assist Storm Surveys and Improve Accuracy of the Damage Assessment Toolkit and Storm Database after Tornado Events – *Michael Mugrage, NWS Mobile, AL*

10:30 – Identifying Dust Events lofted from Post-Fire Burn Scars Utilizing Dust RGB – *Amy McAlister and Emily Berndt, University of Alabama in Huntsville, NASA MSFC SPoRT*

10:45 – The Importance of Using GOES-16 Satellite Imagery for Mesoanalysis During the April 22nd, 2022, Central Gulf Coast Severe Weather Event – *Jonathan Howell, Michael Mugrage, Brandon Black, and Jason Beaman, NWS Mobile, AL*

Session V: Numerical Weather Prediction

11:00 – **Keynote:** Saving Lives with Physics and Game Theory – *Neil Jacobs, UCAR, Boulder, CO*

11:45 - Lunch (On your own)

Session VI: Student Opportunities

1:15 – Planning for Retirement - The Weather Career Afterlife – *Alan Sealls, University of South Alabama*

1:30 – Panel Discussion:

- Broadcast Allan Sealls, *Retired WKRG TV Chief Meteorologist*
- NOAA/Government Jeffrey Medlin, Retired NWS MIC
- NOAA/Government Pat Spoden, Retired NWS Forecaster
- Academia *Bill Williams, Retired, USA Professor Emeritus*

2:00 – How You As a Student Can Make an Impact in the National Weather Service (NWS) – *Carmen Hernandez and Meredith Wyatt, NWS Peachtree City, GA*

2:15 – Opportunities in the National Weather Service/National Ocean and Atmospheric Administration – *Alana McCants, NWS West Gulf Coast River Forecast Center*

2:30 – Teleconnections, Thermostats, and Energy Sector Meteorology – *Nick Lilja, Cheniere Energy*

2:45 – Closing Remarks

Poster Session – 3:30 p.m. – 3:50 p.m.

P1 – Differences in Overlying Synoptic Environments between Lake-Effect and Non-Lake-Effect Snow Associated Colorado Cyclones – *Kevin Lamberson and Jacob Wiley, University of South Alabama*

P2 – Winter UHI Effect on Snowfall in St. Louis Missouri – *Nathaniel Mirly and Jacob Wiley, University of South Alabama*

P3 – Temperature and Radiation Sensor Performance During Lightning Events – *James Smith and Sytske Kimball, University of South Alabama*