

# SeCAPS 2019

## Friday, April 5:

**3:30 p.m.** - Registration

**3:45** - Welcome and Introduction

**3:55** - Synoptic Briefing - Caroline Kolakoski, University of South Alabama

**4:40** - Break

### Session I: Forecasting/Predictability

**4:45** - Examination of Winter Weather Forecasting Difficulties in North and Central Georgia - Sidney King, National Weather Service, Atlanta, GA

**5:00** - Can Thunderstorm Forecasts Predict Lightning-Ignited Wildfires? - Caitlin Ford, University of South Alabama

**5:15** - A Review on the 40th Anniversary of the 1979 Easter Flood in Central Mississippi: Preparing for the Next Record-Breaking Flood. - Anna Wolverton, National Weather Service, Jackson, MS

**5:30** - A Review of the Southeast Mississippi Significant Flooding Event of 27 December 2018 - Brad Bryant, National Weather Service, Jackson, MS

**5:45** - Break

**5:50 - Keynote:** Why are long lead-time El Niño Predictions Challenging? - Dr. Sarah Larson, North Carolina State University, Raleigh, NC

**6:35** - Break

**6:45 - Keynote:** The last decade of weather prediction progress - Dr. Ryan Maue, weather.us

**7:30** - Mixer

## Saturday, April 6:

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

### Session II: Mesoscale/Local

**8:00** - Upon Further Review: The May 18, 1995 Ohio Valley Severe Weather Outbreak - John Gordon, National Weather Service, Louisville, KY

**8:15** - An overview of spring 2018 VORTEX-SE observations in north Louisiana - Todd Murphy, The University of Louisiana, Monroe, LA

**8:30** - Observing Hail Swaths Using the GOES-16 Advanced Baseline Imager - Dillon Blount, University of South Alabama

**8:45** - Is It A Waterspout? A Brief Examination of Tornadic Waterspouts within the WFO Mobile CWA - Da'Vel R. Johnson, National Weather Service, Mobile, AL

**9:00** - Break

**9:10** - Identifying Sea and Bay Breeze Driven Convection and Common Locations for

Initiation - Samantha Darring - University of South Alabama

**9:25** - High Resolution Mapping of Damaging Winter Temperatures in Gulf Citrus, or: "The Case For More Data" - Dr. Steven R. Schultze, University of South Alabama

**9:40** - Impact of the Great American Solar Eclipse of 21 August 2017 on Atmospheric Boundary Layer Evolution - Ryan Wade, Severe Weather Institute, Huntsville, AL

**9:55** - Break

**10:00 - Keynote:** Harnessing the Emerging Potential of Drones in Meteorology: A View to the Future - Phillip B. Chilson, University of Oklahoma, Norman, OK

**10:45 - Poster Session (\*See bottom of page for details!)**

**12:05 p.m.** - Lunch (on your own)

### **Session III: Communication/Societal Impacts**

**1:35** - Using CIPS Analogs to increase forecaster confidence - Nick Lilja, WDAM-TV

**1:50** - Broadcast Meteorologist Use of Social Media in the 2018 Hazardous Weather Testbed Probabilistic - Caroline Kolakoski, University of South Alabama

**2:05** - Preparing For The Worst: Social Media Best Practices and Lessons Learned During Hurricane Michael - Morgan Barry and Katie Nguyen, National Weather Service, Mobile, AL and Tallahassee, FL

**2:20** - Hurricane Michael: Messaging and Impacts of Unprecedented Event for the Florida Panhandle and Beyond - Jessica Fieux and Parks Camp, National Weather Service, Tallahassee, FL

**2:35** - Break

**2:45 - Keynote:** Building Resilience through Innovation in STEM Education - Case Study: Hurricane Maria, Puerto Rico, Ada Monzon, WIPR-TV, San Juan, PR

**3:30** - Break

### **Session IV: Tropical Meteorology**

**3:35** - An Analysis of Tropical Cyclones Impacting Isla Socorro, Mexico - Nicholas S. Grondin, Louisiana State University, Baton Rouge, LA

**3:50** - Constraints in Dvorak Windspeed Estimates: How Quickly Can Hurricanes Intensify? - Sam Sangster, University of South Alabama

**4:05** - Break

**4:10 - Keynote:** Advances and Challenges at the National Hurricane Center - Chris Landsea, National Hurricane Center, Miami, FL

**4:55** - Closing Remarks

### **Poster Session - 10:45 a.m. - 12:05 p.m.:**

**Note:** Odd numbered posters will present from 10:45 a.m. - 11:30 a.m. and even numbered posters will present from 11:30 a.m. - 12:05 p.m.

**P1** - Low-Level Convergence and the Formation of Convection along Sea Breeze Fronts, Zack Webster, University of South Alabama

**P2** - Identifying and Quantifying Strong Surface Convergence Caused by Sea Breezes on the Coast of Alabama, Samantha Michlowitz, University of South Alabama

**P3** - Sea-Breeze Driven Convection and its Relationship to Thermodynamic Instability Parameters, Caroline Kolakoski, University of South Alabama

**P4** - Observing the atmosphere with drones – how good are the sensors and where should you put them? Dr. Sytske Kimball, University of South Alabama

**P5** - Simulation of the 15 May 1998 Iowa/Minnesota Billion Dollar Derecho, Matthew Starke, University of South Alabama

**P6** - A Vortex-SE Study: Tornado Warnings and the Blind/Low Vision Community, Taylor Pechacek, Mississippi State University, Starkville, MS

**P7** - An Analysis of the First Ever DOW-Observed Mesowave, Austen R. Flannery, Embry-Riddle Aeronautical University, Daytona Beach, FL

**P8** - A Climatological Analysis of the Variance of the Ellrod Turbulence Index based on Seasonality, the Diurnal Cycle, and the North Atlantic Oscillation, Greg Sova, The University of Louisiana, Monroe, LA

**P9** - Variations in Pacific Tropical Cyclone Sizes and Precipitation in a GCM, Brandon Cohen, The University of Louisiana, Monroe, LA