

18th Annual AMS Student Conference

Weathering Together: Building a Climate of Diverse Community Perspectives

January 5-6, 2019 Phoenix, AZ

Saturday, January 5, 2019:

7:30a - 9:00a	Student Conference Registration	AMS Registration Desk
8:00a - 9:00a	Breakfast	N120CD Prefunction
9:00a - 10:10a	Session 1: Welcoming Remarks	N120CD
9:00a	<i>Welcome from the Student Conference Planning Committee</i> Kenzie Krocak, University of Oklahoma, Norman, OK Gauge Kerr, Johns Hopkins University, Baltimore, MD Matt Flournoy, University of Oklahoma, Norman, OK	
9:20a	<i>"Advice From Someone Who Has (Almost) Seen It All"</i> Roger Wakimoto, AMS President, University of California Los Angeles, Los Angeles, CA	
9:35a	<i>"Taking a Ride on the Academic Roller Coaster"</i> Jennifer Collins ¹ , School of Geosciences, University of South Florida, Tampa, FL	
9:50a	<i>"New Shoes, New Perspective"</i> Kevin Petty, Chief Science Officer at Vaisala, Louisville, CO	
10:10a - 10:25a	Break	
10:25a - 12:00p	Session 2 & 3: Breakout Session: Explore Your Future Career Description: In each breakout session, panelists will highlight different careers in the weather, water, and climate enterprise. Take this chance to ask professionals about their work, how they got their jobs, and any advice they have for you and fellow students in the field. <i>Rotation 1: 10:25a - 11:10a Rotation 2: 11:15a - 12:00p</i>	
Session 2a/3a:	Public Sector	N121BC
	<i>Session Chair: Nick Grondin, Louisiana State University, Baton Rouge, LA</i> Taylor Trogdon, NOAA/NWS/NCEP/NHC, Miami, FL Maureen Sanders, Texas Water Development Board, Austin, TX	

¹ Dr. Collins is the 2019 Recipient of the Edward N. Lorenz Teaching Excellence Award

Ashton Robinson-Cook, NOAA/NWS/NCEP/SPC, Norman, OK
Curtis Walker, National Center for Atmospheric Research, Boulder, CO

Session 2b/3b: Media N122BC
Session Chair: Taylor Pechacek, Mississippi State University, Starkville, MS

Kerrin Jeromin WeatherNation TV, Centennial, Colorado
Maureen McCann News 13 - Orlando, FL

Session 2c/3c: Academia and Research N124A
Session Chair: Tyler Fenske, University of Miami, Miami, FL

Kristen Averyt, Desert Research Institute, Paradise, NV
Sonia Kreidenweis, Colorado State University, Fort Collins, CO
David Hondula, Arizona State University, Tempe, AZ
Ian Faloon, University of California - Davis, Davis, CA

Session 2d/3d: Private Sector N120CD
Session Chair: Ajay Raghavendra, University at Albany, Albany, NY

Michael Ventrice, IBM, Andover, MA
Jean Vieux, Vieux and Associates Inc., Norman, OK
Nick Troiano, MARS Inc., Hackettstown, NJ
Shunondo Basu, BlackRock, New York City, NY

12:00p - 1:00p Lunch N120AB

1:00p - 1:30p Session 4: Intro to Conversations with Professionals N120CD
Session Chair: Margaret Orr, University of Georgia, Athens, GA
Description: We have a host of professionals from diverse parts of the atmospheric science field ready to answer your questions! In this introduction, our speakers will briefly introduce themselves so that you can choose who you'd like to meet in the next session.

1:35p - 3:45p Session 5: Conversations with Professionals
Session Chair: Margaret Orr, University of Georgia, Athens, GA
Description: This session will give you the opportunity to ask our speakers about their education, career path, and more in a small-group, less formal setting. Choose one room for each rotation and get to know professionals in sectors of our field that interest you!

Rotation 1: 1:35p - 1:55p

Rotation 2: 2:02p - 2:22p

Rotation 3: 2:29p - 2:49p

Rotation 4: 2:56p - 3:16p

Rotation 5: 3:23p - 3:43p

Shawn Milrad, Embry Riddle Aeronautical University - **N120C**
Morgan Barry, National Weather Service Mobile, AL - **N120D**

Bethany Johns, American Institute of Physics, College Park, MD - **N121B**
Tim Hall, The Aerospace Corporation, Walkersville, MD - **N121C**
Brad Colman, The Climate Corporation, Seattle, WA - **N122B**
Gina Eosco, Cherokee Nation Strategic Programs, Arlington, VA - **N122C**
Adam Roser, NOAA/NWS San Diego, San Diego, CA - **N122C**
Michael French, Stonybrook University, Stony Brook, NY - **N123**
Paul Roundy, SUNY Albany, Albany, NY - **N124A**
Alex Garcia, Fox San Antonio, San Antonio, TX - **N124B**
Intelligent Weather Systems - **N125AB**

(Kevin Petty, Vaisala, Louisville, CO; Curtis Walker, NCAR, Boulder, CO; Paul Pisano, Department of Transportation, Washington, DC)

Military Personnel - N126A

(Lt Col Stephen Maile, 25th Operational Weather Squadron, Davis-Monthan AFB, Tucson AZ; Maj Mike Coyne, 25th Operational Weather Squadron, Davis-Monthan AFB, Tucson AZ; Maj Audra Carpenter, 25th Operational Weather Squadron, Davis-Monthan AFB, Tucson AZ ; Mr. Timothy Villaran, 5th Operational Weather Squadron, Davis-Monthan AFB, Tucson, AZ)

Hurricane Hunters - N129A

(Maj Ryan Rickert, 53rd Weather Reconnaissance Squadron, Maj Jeremy Dehart, 53rd Weather Reconnaissance Squadron)

Washington Forum Panel - N127ABC

(Renée Leduc Clarke, Narayan Strategy, Washington DC; Alexander E. (Sandy) MacDonald, Spire Global, Boulder, CO; Larry Brazil, RTI International, Fort Collins, CO; Tim Canty, University of Maryland, College Park, MD; Richard D. Clark, Millersville University, Millersville, PA)

Session 6: Graduate Student Panel

126BC

Description: This panel session will run concurrently with Conversations with Professionals and feature current graduate students who come from different institutions, are at different levels of their programs, and study a wide variety of topics. Two groups of students will split the rotations to allow for multiple points of view. Join one group or both, but be sure to come with questions for your fellow students!

G. Aaron Alexander, University of California, Davis, Davis, CA
Margaret Orr, University of Georgia, Athens, GA
Addison Alford, University of Oklahoma, Norman, OK
Ryann Wakefield, University of Oklahoma, Norman, OK
Meredith Fish, Scripps Institution of Oceanography, UCSD, La Jolla, CA
Tyler Fenske, University of Miami, Miami, FL

Session 7: Graduate School Admissions Panel

128AB

Description: Nervous about applying for graduate school? Receive valuable advice from the professionals who deal with graduate admissions,

the do's and don'ts of applications, submitting a strong personal statement, and the importance of things like test scores and research experience. This panel session will run concurrently with Conversations with Professionals.

Jeff Basara, University of Oklahoma, Norman, OK
Sonia Kreidenweis, Colorado State University, Ft Collins, CO
Benjamin Lintner, Rutgers University, New Brunswick, NJ

3:45p - 4:00p

Coffee Break

N120CD Prefunction

4:00p - 5:00p

Session 8: Breakout Session: Expand Your Horizons

Description: Whether you're interested in landing a job after graduation or are in the middle of your graduate studies, we have a session for you. Learn about the unique challenges of Emergency Management, get tips for building an effective resume, or explore opportunities for graduate students in this breakout session.

Session 8a: Integrated Warning Team I:

N121BC

Introduction to Emergency Management (Part 1)

Session Chair: Massey Bartolini, University at Albany, SUNY, Albany, NY

Description: Ever wondered how a weather forecast is used to inform emergency managers and other decision-makers? This session will familiarize you with the Integrated Warning Team and provide information about how to get started with emergency management.

Matt Moreland, NOAA/NWS San Diego, San Diego, CA
Marty Senterfitt, Monroe County Emergency Management, Marathon, FL

Session 8b: Resume Workshop I

N122BC

Session Chair: G. Aaron Alexander, University of California, Davis, Davis

CA

Description: In today's competitive job market, recruiters get hundreds of applications per job position. A great resume is the first step to standing out and securing that dream job! Come to this session to learn what it takes to prepare a good resume or CV, ask questions on the hiring process, and receive specialized tips on how to customize your resume for different sectors in meteorology.

Kerry Kidwell, American Institute of Physics, College Park MD

Session 8c: Mastering Your Doctorate

N124A

Session Chair: Addison Alford, University of Oklahoma, School of Meteorology, Norman, OK

Description: Perspectives ranging from a recent graduate to a career scientist will help you prepare for and navigate through your masters or Ph.D. After our three speakers share their ideas to achieve success, the

panel will have ample time to address your questions about graduate school mastery.

"Tales of a Recent Ph.D. Survivor: 'It's Always Impossible...Until It's Done"
Dereka Carroll-Smith, Jackson State University, Jackson, MS

"Mastering the science, and beyond: The pros and cons of choosing a Masters vs. Ph.D."
Shawn Milrad, Embry-Riddle Aeronautical University, Daytona Beach, FL

"Mastering Your Doctorate: Taking Care of Your Career and Yourself"
Yvette Richardson, The Pennsylvania State University, University Park, PA

4:45p

Closing Remarks

Kenzie Krocak, University of Oklahoma, Norman, OK
Gaige Kerr, Johns Hopkins University, Baltimore, MD
Matt Flournoy, University of Oklahoma, Norman, OK

5:30p - 7:30p

Resource Fair and Graduate School Reception

Hall 5/6

Sunday, January 6, 2019:

8:00a - 9:00a **Breakfast and Meet-and-Greet with** **N120CD Prefunction**
Roger Wakimoto and Presidential Forum speakers

9:00a - 9:45a **Session 9: Extreme Weather Events** **N120CD**

Session chair: Meredith A. Fish, Scripps Institution of Oceanography, UCSD, La Jolla, CA

Description: Building on the AMS 2019 theme, this session will highlight a diverse group of individuals' research on a breadth of extreme weather events. This session will be focused on various aspects of extreme weather including but not limited to exemplary case studies, dynamical development, and impact analysis.

"Chasing the World's Most Intense Thunderstorms: Proyecto RELAMPAGO-CACTI Argentina 2018"

Steve Nesbitt, University of Illinois Urbana-Champaign, Urbana, IL

"Record-Breaking Precipitation in the Commonwealth of Dominica Associated with Tropical Storm Erika (2015)"

Rosimar Rios-Berrios, National Center for Atmospheric Research, Boulder, CO

"The role of meteorology in post-wildfire debris flow hazards"

Nina Oakley, Desert Research Institute, Reno, NV

9:45a - 9:55a **Break**

9:55a - 11:45a **"Outside the Box" Skillsets**

Description: This joint session with the Student Conference will touch upon skill sets that aren't necessarily taught in the weather, water, and climate curriculum. The job market has become highly demanding, therefore it is essential for applicants to have a broad range of expertise in order to stand out in a sea of job applications. Learning does not end at the academic level, and it is important to have the ability to adapt to new proficiencies in order to stay competitive when moving to the next career step.

The session begins in Room 124B with a keynote from Dr. Gina Eosco, the recipient of this years Award for Early Career Professional Achievement. Attendees will then be split up into three smaller groups

Joint Session 1a: Working Environments (Gretchen Mullendore) 124B

Joint Session 1b: The Art of Negotiating (James Correia) 125AB

Joint Session 1c: Finance and Benefits (Jessica Mackaro) 126A

9:55a - 10:45a

Session 10: Breakout Session: Contribute to the Field

Description: During these breakout sessions, undergraduates can gain valuable insights to graduate school or undergraduates and graduates alike can learn about how hot-button topics relate to weather and public policy.

Session 10a:

“Applying Yourself” and Other Advice for Future Grad Students

N121BC

Session chair: Ryann Ashley Wakefield, University of Oklahoma, Norman, OK

Description: This session is focused on providing advice to future graduate students. What do we want to see in the next generation of scientists, and what matters most when choosing graduate students? Issues such as contacting prospective faculty advisors, choosing the right advisor, choosing a research topic, knowing which schools to apply to and application timelines are just a few of many potential topics.

“Preparation for Graduate School: Evaluation of Myself from Current Point of View”

Naoko Sakaeda, University of Oklahoma, School of Meteorology, Norman, OK

“Preparing to Succeed in Graduate School”

Tom Galarneau, University of Arizona Department of Hydrology and Atmospheric Sciences, Tucson, AZ

“One does not simply... get into graduate school”

Jason Cordeira, Plymouth State University Department of Atmospheric Science and Chemistry, Plymouth, NH

Session 10b:

The Social Sphere: Public Policy in the Weather Sector

N122BC

Session Chair: G. Aaron Alexander, University of California, Davis, Davis

CA

Description: The Social Sphere: Public Policy in the Weather Sector is geared towards allowing student to be exposed to a new and exciting field; Public Policy. This session will be focused on an explaining how the atmospheric sciences and public policy work together to bring change.

Kim Klockow-McClain, University of Oklahoma & CIMMS, Norman, OK

Bethany Johns, American Institute of Physics, College Park, MD

Kei Koizumi, AAAS, Washington, DC

William Hooke, American Meteorological Society, Washington, DC

10:45a - 10:55a

Break

10:55a - 11:50a

Session 11: Breakout Session: Strengthen Your Skill Set

Description: During this breakout session, learn about some of the tools professionals use every day or how they communicate their work to fellow scientists and the general public.

Session 11a: Tools of the Trade N120CD

Session Chair: C. Todd Rhodes, Coastal Carolina University, Myrtle Beach, SC

Description: Expand your skill set by exploring a few basic capabilities vital to atmospheric research. Tools of the Trade features a series of 10-minute talks by professionals introducing tools used across various branches of meteorology and climatology. Associated supplemental materials will be made available online following the talks.

10:55a

Session Introduction

C. Todd Rhodes, Coastal Carolina University, Myrtle Beach, SC

11:00a

Linux

Pete Prokrandt, UW-Madison Dept. of Atmospheric and Oceanic Sciences, Madison, WI

11:12a

Python

Ryan May, Unidata, Boulder, CO

11:24a

NCL

Mike Coniglio, National Severe Storms Laboratory, Norman, OK

Session 11b: The Atmosphere of Science Communication 121BC

Session Chair: Zoey Rosen, Colorado State University, Fort Collins, CO

Description: Science communication, especially in the weather sector, is as complex of a topic as the atmosphere itself. This panel will cover a range of professionals in the social science sphere, as well as those dealing with operational hazard communication every day.

“Direct and indirect paths to improving weather forecast communication”

Julie Demuth, NCAR, Boulder, CO

“Bridging Knowledge and Practice: Applying Extension Approaches to Weather and Climate Decision-making”

Jessica Whitehead, North Carolina Sea Grant Program, Raleigh, NC

“Working Together to Improve Weather Risk Communication”

Richard Smith, NWS, Norman, OK

“Translating social science research into application”

Gina Eosco, Cherokee Nation Strategic Programs, Arlington, VA

11:50a - 12:00p

Break

12:00p - 12:30p **Session 12: Keynote** **N120CD**
Session Chairs: Kenzie Krocak, University of Oklahoma, Norman, OK
Gaige Kerr, Johns Hopkins University, Baltimore, MD
Matt Flournoy, University of Oklahoma, Norman, OK
Student Conference Co-Chairs

“Resilience and Diversity in Education: Lessons Learned from Hurricane Maria”
Ada Monzon, EcoExploratorio, San Juan, PR

12:30p **Closing Remarks and Poster Session Announcements**
Kenzie Krocak, University of Oklahoma, Norman, OK
Gaige Kerr, Johns Hopkins University, Baltimore, MD
Matt Flournoy, University of Oklahoma, Norman, OK
Student Conference Co-Chairs

12:35p - 2:00p **Lunch (on your own)**

Session 13: **Interactive Sessions**
Description: Get involved and join the fun with these interactive sessions. Learn more about emergency management, have your resume edited by professionals, or participate in a broadcast tape swap.

2:00p - 3:30p **Session 13a: Integrated Warning Team II: In Their Rainboots Workshop** **N121BC**

Session Chair: Massey Bartolini, University at Albany, SUNY, Albany, NY

Description: During a severe weather event, it takes a team of leaders pooling their respective skills to ensure public safety. Join professionals from the broadcast and public sectors of meteorology, emergency managers, and other leaders in an interactive demonstration of an Integrated Warning Team exercise. With the guidance of these professionals, you will learn how all of these groups collaborate to protect the public and how physical science and social science intertwine to support decision-making.

Moderators:

Matt Moreland, NOAA/NWS San Diego, San Diego, CA

Mark Jackson, NOAA/NWS Los Angeles, Oxnard, CA

Loni Eazell, Los Angeles County Public Works, Alhambra, CA

Facilitators:

Jayme Laber, NOAA/NWS Los Angeles, Oxnard, CA

Jeral Estupinan, NOAA/NWS Phoenix, Phoenix, AZ

Mike Stavish, NOAA/NWS Medford, Medford, OR

Tanja Fransen, NOAA/NWS Glasgow, Glasgow, MT

Eric Boldt, NOAA/NWS Los Angeles, Oxnard, CA

Ken Waters, NOAA/NWS Phoenix, Phoenix, AZ

Megan Syner, NOAA/NWS Great Falls, Great Falls, MT

Barry Goldsmith, NOAA/NWS Brownsville, Brownsville, TX

Charlie Woodrum, NOAA/NWS Shreveport, Shreveport, LA
Maureen McCann, News 13, Orlando, FL
Butch Renders, Phoenix, AZ
Bruce Monson, Maricopa County Emergency Management, Phoenix, AZ
Brent Olson, Scottsdale Emergency Management, Scottsdale, AZ
Kirsten Vandeventer, Arizona Dept. of Transportation, Phoenix, AZ
Glenn Jones, City of Peoria Emergency Management, Peoria, AZ
Adam Roser, NOAA/NWS San Diego, San Diego, CA
Marty Senterfitt, Monroe County Emergency Management, Marathon, FL

2:00p - 3:45p **Session 13b: Resume Workshop II: Resume/CV Review** **N122BC**
Session Chair: G. Aaron Alexander, University of California, Davis, Davis, CA
Description: Bring your resume to get tailored, one-on-one feedback from job recruiters and professionals across the many sectors of our profession. You do not need to attend the first part of the workshop in order to sign-up.

2:00p - 3:45p **Session 13c: Broadcast Tape Swap** **N124A**
Session Chair: Nicholas Grondin, Louisiana State University, Baton Rouge, LA
Description: Watch aspiring broadcasters in action! Submitted broadcasts from students will be viewed and critiqued by a panel of professional meteorologists. Learn the dos and don'ts of broadcast meteorology by watching the panel's constructive criticism. All are welcome!

Panelists:
Krystle Henderson, KPNX 12 News, Phoenix, AZ
Alan Sealls, WKRG-TV Mobile, AL
Kerrin Jeromin, WeatherNation TV Centennial, CO

4:00p - 6:30p **Presidential Forum & Welcome/Awards Event** **N120CD**

6:30p - 8:30p **Poster Session** **Hall 4**
Session Chair: Matt Flournoy, University of Oklahoma, Norman, OK