

Hindsight in 2020: A Century of Meteorological Innovation to Inspire the Future

Saturday, January 11, 2020:

7:30–9:00 AM Student Conference Registration AMS Registration Desk, North Lobby

8:00–9:00 AM Breakfast

9:00–10:10 AM Session 1: Welcoming Remarks Ballroom East

9:00–9:20 AM Welcome from the Student Conference Planning Committee
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

9:20–9:35 AM “Building on the Past and Creating an AMS of the Future”
Jenni L. Evans, AMS President, Pennsylvania State University, State College, PA

9:35–9:50 AM “Failing My Way to the Lorenz Award”
John Knox, Edward N. Lorenz Teaching Excellence Award Recipient, University of Georgia, Athens, GA

9:50–10:10 AM “Are we listening? Engaging with decision makers”
Mary Glackin
Keynote Speaker

10:10–10:25 AM Coffee Break

10:25 AM–12:00 PM Session 2: The Geoscience MBA: Mind, Body, Attitude
Description: *Sometimes we get so caught up in trying to find the perfect job or get into the best graduate school that we forget to take care of our mental and physical health. These breakout sessions will focus on just that; stretching your mind, taking care of your body, and maintaining a healthy attitude towards work and personal time. There are three rotations in this session so you can visit each room in your preferred order.*

Rotation 1: 10:25–10:50 AM

Rotation 2: 10:55–11:25 AM

Rotation 3: 11:30 AM–12:00 PM

Session 2a: Mind - Ballroom East

Session Chair: Lily Campbell, Pennsylvania State University, University Park, PA

Description: *Between classes, research, and extracurriculars, finding the time to take care of our mental health can be difficult. This session will delve deeper into subjects related to mental health, including managing*

stress in school and the workplace, time management, maintaining hobbies, and knowing when and how to ask for help.

Melissa Burt

Rick Smith

Session 2b: Body - 203

Session Chair: Rachel Miller, University of Oklahoma, Norman, OK

Description: *Work and stress can impact your body's health just as much as your mental health, especially during finals, field work, and thesis/dissertation writing. Finding a physical activity you enjoy such as running, yoga, hiking, or weight lifting can be an effective strategy for dealing with physical stress. This session will cover different ways our speakers have prioritized their body's health and how it helps them be better meteorologists.*

Jens Redemann

Yvette Richardson

Session 2c: Attitude - 204AB

Session Chair: Meredith Fish, Scripps Institution of Oceanography, UCSD, La Jolla, CA

Description: *Maintaining our mental and physical health are important aspects for lifelong health, but a healthy attitude can keep us happy along the way! Listen to Becky and David discuss how to stay positive through stressful times, handle negative social media comments, mitigate imposter syndrome, learn how to respectfully say no and more.*

Becky DePodwin, Accuweather, State College, PA

David Lavers, ECMWF, Reading, UK

Session 3: Introduction to Conversations with Professionals - Ballroom East

12:05–12:30 PM

Session Chairs: Zoey Rosen, Colorado State University, Fort Collins, CO and Tyler Fenske, University of Miami, Miami, FL

Description: *We have a wide variety 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.*

12:30–2:00 PM

Lunch - Ballroom West (food for purchase available)

2:00–3:45 PM

Session 4: Conversations with Professionals

Session Chairs: Tyler Fenske and Zoey Rosen

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: 2:05–2:25 PM

Rotation 2: 2:30–2:50 PM

Rotation 3: 2:55–3:15 PM

Rotation 4: 3:20–3:40 PM

Private sector speakers -

Ballroom East: *Bryan Engelsen*

Karen Kosiba

Becky Depodwin

Public sector (government) speakers - 203:

Katherine Hawley

Ashton Robinson-Cook

Amber Emory

Qing Liang

Rick Smith

Media and broadcast speakers - 204AB:

Kathy Sabine

Shiri Spear

Academia speakers - 205A:

Marianna Linz

Tim Canty

Other panels:

Graduate student panel - 205B:

Description: *Learn the inside scoop about graduate student life from current graduate students.*

Matt Flournoy, University of Oklahoma, Norman, OK

Lena Dziechowski, University of Massachusetts, Lowell, MA

Holly Mallinson, University of Illinois at Urbana-Champaign, Champaign, IL

A. Addison Alford, University of Oklahoma, Norman, OK

Graduate admissions panel - 206A:

Description: *Speak to professionals who evaluate graduate admission materials to learn about what makes a good application and mistakes to avoid.*

Alex Gonzalez

Brian Tang

3:45–4:00 PM

Coffee Break

4:00–5:00 PM

Session 5: Breakout Session: What's next?

Description: *There are so many different paths that your geoscience degree can take you. Use this session to explore just a few of the possibilities for post-grad!*

4:00–5:00 PM

Session 5a: Integrated Warning Team, Part I - Ballroom East
Session Chairs: *Massey Bartolini, University at Albany (SUNY), Albany, NY & Quinton Lawton, University of Miami, Miami, FL*

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.*

4:00–5:00 PM

Session 5b: Resume Workshop, Part I - 203
Session Chair: *Aaron Alexander, University of California, Davis, Davis CA*

Description: *In today's competitive job market, recruiters get hundreds of applications. A great resume is the first step to standing out and securing the job of your dreams. Come to this session to learn the elements of a great resume or CV, ask questions on the hiring process, and receive specialized tips on how to customize your resume for different sectors in meteorology.*

4:00–5:00 PM

Session 5c: Mastering Your Doctorate - 204AB

Session Chair: *Elena Fernandez, Cornell University, Ithaca, NY*

Description: *So you're planning on getting your PhD? Great! But what does that entail exactly? This session features individuals with experience in that realm, helping to answer questions like, "What is expected of a good advisor?", "What kind of work will I do?", or even "Should I get my PhD?".*

Philippe Papin

Marcela Loria-Salazar

Matt Kumjian

Dave Stensrud

4:00–5:00 PM

Session 5d: Non-Traditional Jobs in the Geosciences - 205A

Session Chair: *Keenan Eure, Pennsylvania State University, University Park, PA*

Description: *Think that all you can do with your degree is forecast or research? Think again! The weather is relevant to nearly every profession, and this session will highlight just a few of the types of jobs students may not think of when deciding to get a geoscience degree.*

Lorena Medina Luna

Pam Knox

Elise Schultz

5:30–7:30 PM Resource Fair & Graduate School Reception - East Registration

Sunday, January 12, 2020:

8:00–9:00 AM Meet President Jenni Evans Coffee (for Student Conference and for Early Career Professionals Conference attendees)

9:00–9:45 AM

Session 6: Hindcasts, Nowcasts, and Forecasts: How Extreme Weather has Shaped the Enterprise - Ballroom East

Session Chair: Holly Mallinson, University of Illinois at Urbana-Champaign, Champaign, IL

Description: *In keeping with the theme for the centennial meeting, this session will discuss progress in the community's understanding of extreme weather over the last hundred years, our current understanding of extreme events, and the impacts of climate change on extreme events in a look towards the future.*

Harold Brooks

Kimberly Wood

Andy Nash

9:50–10:45 AM

Session 7: Breakout Session: Skills for the Field

Description: *In addition to knowing all about how the atmosphere works, it's also important to develop professional skills that will help you land that dream job. This session will feature 4 rotations to allow you to choose what skills are most important for your chosen career path.*

Rotation 1: 9:50–10:00 AM

Rotation 2: 10:05–10:15 AM

Rotation 3: 10:20–10:30 AM

Rotation 4: 10:35–10:45 AM

Social media use and science communication - Ballroom East

Session Chair: Lena Dziechowski, University of Massachusetts Lowell

Description: *Social media can be both a powerful and daunting platform for science communication! Stop by this rotation to learn how to navigate through it effectively. Topics to be discussed include conveying sensitive but important subjects in a respectful manner, sharing your work and networking, building a following, and social media verbiage/etiquette both with the general public and the scientific community.*

Marshall Shepherd

How to give a good presentation - 203

Session Chair: Aaron Alexander, University of California, Davis, Davis CA

Description: *Presentations are how we communicate our scientific findings to other scientists and the general public. Ensuring that these presentations are not only effective communicating the main point of your work, but also interesting is a talent that this session will address. Come by for tips and tricks to make sure your next presentation is stellar!*
Sonia Lasher-Trapp

Applying and interviewing for faculty positions - 204AB

Session Chair: Kristofer Tuftedal, Stony Brook University, Stony Brook, NY

Description: *Getting a job can be an arduous process. Getting a faculty position at any university is no exception. Understanding the ins and outs of applying and interviewing for a faculty position could make the difference between getting your dream professor position or having to look elsewhere. Stop in to learn about the process from someone who has already gone through it all.*

Victor Gensini

Fieldwork and team management - 205A

Session Chair: Jonathon Klepatzki, Embry-Riddle Aeronautical University, Daytona Beach, FL

Description: *To conduct field work is an achievement in itself, let alone managing a project. Stop by and learn about the process of conducting and managing successful field work campaigns and managing workers in a unique environment.*

Anna Wilson

Writing for science - 205B

Session Chair: Ryann Wakefield, University of Oklahoma, Norman, OK

Description: *How do you tell a scientific story with your writing? As meteorologists, we must effectively communicate challenging concepts to a variety of audiences. This session will address the hidden link between engaging narratives and technical writing. Come learn how to make hydrostatic balance sound as exciting as Harry Potter.*

Nicole Riemer

Networking and applying for jobs - 206A

Session Chair: Margaret Orr, University of Georgia, Athens, GA

Description:

Stacey Hitchcock

The world of broadcast meteorology - 206B

Session Chair: Nicholas S. Grondin, University of Tennessee Knoxville, TN

Description: *What is it like to be the face of the weather enterprise? What is it like to spend time every day conveying weather information to the public? This session will give you an opportunity to learn about having a career in the public eye and skills you need to be successful talking to the public.*

Cindy Fitzgibbon

- 10:45–10:55 AM** **Break**
- 10:55–11:50 AM** **Session 8: It All Starts with Observations: Stories from the Field - Ballroom East**
Session Chair:
Jeremiah Otero Piersante, Colorado State University, Fort Collins, CO
Description: Why participate in field work? While observation is critical for research, skills and insights gained from experience in the field offer many areas for professional development. This session touches on a day in the life in the field and explores how it can be a valuable experience for students and early career professionals.
Phil Chilson

Ken Davis

Holly Oldroyd

Erik Rasmussen
- 10:55–11:50 AM** **Joint Session - Breaking In: Surviving the Early Career Transition - 255**
- 11:50 AM–12:00 PM** **Break**
- 12:00–12:30 PM** **Session 9: Keynote Presentation - Ballroom East**
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

Jonathan Foley
- 12:35–2:00 PM** **Lunch (on your own)**
- 12:35–2:00 PM** **Student Conference Presidential Forum**
A Climatologist, an Engineer, a Social Scientist, and a Policy Maker Walk into a Bar... Tough Choices on a Warming Planet - 210AB
- 2:00–3:45 PM** **Session 10: Breakout Session: Hands-on experiences**
Description: Dive into a new subject and join the fun with these interactive sessions. From learning python to becoming an ally, we have an option for everyone. Note that you need to have signed up in advance for some of these sessions. If you didn't sign up prior to attending, please feel free to join the audience in the broadcast tape swap or see if there are any additional slots in the resume workshop.

Session 10a: Resume Workshop, Part II - 203

Session Chair: Aaron Alexander, University of California, Davis, Davis CA

Description: *For attendees who signed up at the time of registration, bring your resume to get tailored, one-on-one feedback from job recruiters and professionals across the many sectors of the geoscience nexus. You do not need to attend the first part of the workshop in order to sign-up.*

Session 10b: Broadcast Tape Swap - 204AB

Session Chair: Nicholas S. Grondin, University of Tennessee

Description: *Selected students will present pre-recorded broadcasts to a panel of professional broadcast meteorologists. All are welcome to watch the next generation of broadcasters and learn from our experienced panel of TV meteorologists!*

Panel: Kathy Sabine, Kevin Lemanowicz, Janice Huff

Session 10c: Bystander Training - 205A

Session Chair: A. Addison Alford, University of Oklahoma

Description: *Harassment and bullying endanger the professional and personal well-being of individuals and their communities, and create hostile climates. This interactive workshop, led by the ADVANCEGeo Partnership team, will identify factors that contribute to hostile and exclusionary behaviors in scientific research environments, and provide community bystander intervention strategies and active practice of interventions through discussion of scenarios.*

Panel: Sean Arms, Julian Chastang, Howard Van Dam, Max Grover

Session 10d: Python Workshop - 205B

Session Chair: Eli Dennis, University of Maryland, College Park, MD

Description: *Are you looking to make the transition to Python but unsure of where to start? Do you already know Python but want to see atmospheric science specific applications? Are you looking for data? If so, then please join us for a hands-on Python Users' Workshop where beginners and experts alike will learn skills that will enhance your ability to find, analyze, and explore data, all while doing so in the cloud. Specialized local software installations are not necessary. All you need is a laptop or tablet (a keyboard may be helpful) and a GitHub login to participate. In-person follow-up help will be available all week, as well as remotely once our time together as a community in Boston comes to an end.*

Session 10e: Integrated Warning Team, Part II: In Their Rainboots - 205C

Session Chairs: Massey Bartolini & Quinton Lawton, University of Miami, Miami, FL

Description: *Ensuring public safety during hazardous weather events is no solo performance. Join professionals from the broadcast and public sectors of meteorology, emergency managers, and other leaders in an interactive Integrated Warning Team exercise. With the guidance of these*

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professionals, you will learn how these groups collaborate to protect the public and how physical science and social science intertwine to support decision-making.

4:00–6:30 PM

Presidential Forum & Awards Ceremony - Ballroom East

6:30–8:30 PM

Poster Session - Hall B

Session Chair: Matt Flourney, University of Oklahoma, Norman, OK