MONDAY MEMO

Humans might not have cared for Winter Storm Jonas, but the National Zoo's Giant Panda Tian-Tian is having a blast! Go [here](#) to see more snow merriment.
This is the second week of the spring 2016 semester.

**ALERTS:**

- There will be **no Walk-In Hours** this Thursday, January 28.
- You can still **drop** a spring class online through Monday, February 1. You can still **add** a class online this spring through February 1 as well -- **BUT** you must already be attending the class and obtain instructor permission in Ozone, even if the class has space open.
- DGES majors may begin signing up **NOW** for fall 2016 advisement. Just go to iadvise.ou.edu to set up an appointment with Jamie Steele.
- Don’t forget the **three job openings** through CIMMS; go to jobs.ou.edu and check out job #s 24361, 24171, and 23969.
- **Calling all Spring and Summer 2016 Degree Candidates!** If you have not confirmed your remaining requirements yet (aka “DEGREE CHECK”) please do so IMMEDIATELY! Call (405) 325-3095 to schedule your appointment today. Also, please take a few moments to complete the College’s Graduation Exit Survey [here](#).
CONGRATULATIONS to the Game Jam Group!

Heartiest congratulations to OU’s “Fantastic Four”! Geography major Sarah Garfinkle, computer science major Andrea Balfour and meteorology grad students David Gagne and Tim Supinie showcased their climate education game, *Climate Conquerors*, last week at the Smithsonian National Museum of Natural History in Washington, D.C. after taking top honors in a National Oceanic and Atmospheric Administration competition. *Climate Conquerors* combines elements of successful board games to create a world where the players must collect resources to grow their cities while maintaining an overall positive carbon impact on the environment. Read more about the group’s D.C. adventure [here](#).
Spotlight on Scholarships

You still have one more week to access the CASH online scholarship system for the upcoming academic year. This great new system - which identifies all scholarships you’re eligible to apply for - remains open until Monday, February 1, 2016. Go [here](#) for more information.

If you are a **student veteran**, here are two more scholarship opportunities for you to check out:

- Applications are now open for the American Association of Petroleum Geologists (AAPG) annual scholarship awarded to student veterans in the geosciences through its United States Military Veterans Scholarship Program (MVSP). Scholarships range from $2,000 - $4,000 and may be used toward any education-related expense. Go [here](#) for steps to apply, requirements and guidelines. Applications are open until April 15, 2016. Winners will be announced in May.
- Tillman Scholarship Applications open Tuesday, February 2 and close Tuesday, March 1. The Tillman Scholarship covers
educational expenses, including tuition and fees, books, and living stipend. Each award amount is determined on a case-by-case basis and is intended to meet each applicant’s unique need. The exact amount is based on individual financial need and the strength of the application in comparison to the overall pool. Veteran and active-duty military service members from all branches of the US military and their current spouses are eligible to apply. Go here for eligibility requirements and an application.

**Geography and GIS majors** will be interested in the following scholarship: The Geospatial Information and Technology Association (GITA) Mid-Atlantic chapter is again awarding scholarships to deserving GIS and Geography students. Scholarships are available to full or part-time students studying at a university, college, or technical school in the United States or Canada. Students need not be GIS or Geography majors but their course work and/or majors must have a large geospatial component. Winners must be a citizen or legal resident of the United States or Canada. The grand prize winners will receive a $1,000 scholarship, which will be presented at the EnerGIS annual conference in Canonsburg, PA on May 16-17, 2016. All travel and lodging costs must be paid for by the scholarship winners. Several second place scholarship awards ($500) will also be awarded. If you win a second place scholarship, you are not required to attend the conference. If you are interested, please click on the following link: [http://www.energis.us/2016-scholarships/](http://www.energis.us/2016-scholarships/); the deadline to apply is March 6.

*And* we also encourage interested A&GS majors to apply for one of the many campus recognition awards, which you can do online at scholarships.ou.edu. The deadline to apply is next Monday, February 1.
CAMPUS RECOGNITION AWARDS

Spring 2016
Applications due February 1, 2016.
Online applications available at scholarships.ou.edu

The President’s Award for Outstanding Freshmen
12 selected individuals receiving the highest honor bestowed to freshmen by the university community.

The President’s Award for Outstanding Sophomores
12 selected individuals receiving the highest honor bestowed to sophomores by the university community.

The President’s Award for Outstanding Transfer Students
Selected transfer students who have excelled in the areas of scholarship, character, leadership, and service.

The Regents’ Award for Outstanding Juniors
12 selected individuals who have excelled in the areas of scholarship, character, leadership, and service.

Molly Shi Barnes Volunteer Award
1-3 selected individuals who have made a significant impact on the community ($250 cash award).

Melvin C. Hall Award/Scholarship
One selected individual who has made a significant contribution to enhance campus diversity ($500 cash award).

Fern Holland Award
Sponsored by Styles Coffee & Tea Company. A selected female student with a desire to make a difference in the world around us ($1,000 cash award).

Big Man on Campus & Big Woman on Campus
Who can apply: Students and seniors or fifth-year seniors.

PIET: Top 10 Senior Honor Society
Who can apply: Will be of Senior standing for the academic year of 2016-2017.

Leitzelser Honor List and Medallion
Who can apply: Scheduled to receive Bachelor’s Degree in December / May / August 2016.

Who’s Who Among American Colleges and Universities
Who can apply: Scheduled to receive Bachelor’s Degree in December / May / August 2016.

Fall 2016
Paper Applications

CAC Homecoming Royalty
Who can apply: Fourth or fifth-year undergraduate seniors.
For more information visit: cacou.edu

Outstanding Seniors
Who can apply: Scheduled to receive Bachelor’s Degree in December / May / August 2017.
Award for Senior to the Outstanding Senior of each undergraduate college as selected by the college dean.

LEAD AND VOLUNTEER
.OU.EDU

The University of Oklahoma is an Equal Opportunity, Affirmative Action Institution. If you have any concern about leadership and volunteerism, contact Leadership & Volunteerism at 918-325-4360.
Applications now open for Shellberg Award

In memory of David James Shellberg, the College of Atmospheric and Geographic Sciences will present a memorial scholarship to a student exhibiting exemplary vision focused on the utility of surface observations in the realm of meteorology or climatology. The award is presented each year at the annual College awards ceremony in April.

David James Shellberg earned his B.S. in Meteorology from Purdue University before coming to the University of Oklahoma for graduate school. He earned his M.S. in Meteorology from OU in 1994. After completing his degree, David joined the Oklahoma Climatological Survey as a research associate, to continue his work on the Oklahoma Mesonet. David was an enthusiastic young man, a good friend to many, and an integral part in making the Oklahoma Mesonet a reality. David died in a plane crash in Indiana on October 31, 1994; he was heading back to Oklahoma after marching at halftime during Purdue’s homecoming game.
The competition is open to any University of Oklahoma student in good standing enrolled in the College of Atmospheric and Geographic Sciences at any point during the academic year ending at the spring semester in which the award is presented. This includes both undergraduate and graduate students. A single scholarship will be awarded based upon the recommendations of a review panel. All submissions must be received via email to Brad Illston (illston@ou.edu) no later than 5:00 p.m. on Wednesday, March 23, 2016. The scholarship recipient will receive a $500 award, presented at the annual College awards ceremony. The recipient’s name will be engraved on a plaque in OCS main office.

For more information, please see the attached application or contact Brad Illston, illston@ou.edu, 405-325-5445.

*Creativity and innovation flow much easier in an atmosphere as gorgeous as OU’s Helmerich Great Reading Room in the Bizzell Library.*
University Libraries Undergraduate Research Award

The University of Oklahoma Libraries Undergraduate Research Award recognizes excellence in the research accomplishments of OU undergraduate students who demonstrate creativity and innovation in their use of OU Libraries collections and services. The final product of a research project may or may not be a written paper. The OU Libraries seek to acknowledge research of all kinds and in a variety of formats. For example, successful projects may:

- Incorporate primary sources from the Libraries' special collections.
- Take the form of digital scholarship that integrate digital techniques and tools.
- Result in the visualization of spatial or numeric data.
- Reflect creative scholarship such as poetry, music, film, and other forms of individual expression grounded in research.

Up to three awards may be given, one each in the amounts of $1,500, $1,000, and $750. OU Libraries will accept submissions for individual as well as collaborative research projects. Collaborative research projects may include no more than 5 group members; any award money received will be shared equally among group members. For more information or to apply online please visit OU's Centralized Academic Scholarship Hub.

This Week’s Seminar:
Dr. Elinor Martin
Assistant Professor
School of Meteorology, University of Oklahoma
January 26th, 4:00 pm, NWC Room 1313
Refreshments will be served at 3:30 pm

Representation of African Easterly Waves in Historical and Future CMIP5 Simulations

African easterly waves (AEWs) can act as seed disturbances for tropical cyclones (TCs) in the Atlantic. Changes in future AEW activity may thus have important consequences for development of TCs. Simulated AEWs were investigated using output from the Coupled Model Intercomparison Project 5 (CMIP5) suite of experiments including coupled historical and future, and atmosphere only (AMIP) simulations. Large biases exist in the simulation of low- and mid-level eddy kinetic energy (EKE, a proxy for AEW activity) in AMIP and historical simulations. CMIP5 models predict excessive EKE and deficient rainfall south of 17°N. The same biases exist in historical and AMP models, and those are not a consequence of errors in sea surface temperatures. The models also struggle to accurately couple AEWs and rainfall. CMIP5 models are unable to propagate AEWs across the coast and into the Atlantic which is shown to be related to the resolution of the Guinea Highlands. Future projections of the annual cycle of AEW activity show a reduction in late spring and early summer, and a large increase between July and October. The simulation of AEWs is challenging for CMIP5 models and must be further diagnosed in order to accurately predict future TC activity and rainfall in the Sahel.

Dr. Martin earned her B.Sc. (Hons) in Meteorology from the University of Reading. She was part of the first group of Reading students to attend OU within the ongoing exchange program. After receiving M.S. from Colorado State University, where she worked on understanding atmospheric science, she gained a Ph.D. in Atmospheric Science from Texas A&M University, where her work was focused on weather-climate interactions in the Caribbean. Prior to joining the School of Meteorology in 2014 she held a postdoctoral position at SUNY Albany. Her research interests include tropical and sub-tropical climate variability and change, with focus on precipitation processes, and weather-climate interactions.
Where else can you find the Leaning Tower of Pisa as you walk into a library? Only at OU!
It’s just one of dozens of attractions to point out to potential OU students.

**Seeking Volunteers**

You may have heard that student athletes must sign a letter of commitment, but did you know that student scientists must sign a commitment letter as well? Actually, all students at OU must sign a commitment letter, confirming that they will be attending the University of Oklahoma.

On Thursday, February 25, the College of A&GS will host “The Experience,” a brunch for the students who have already been admitted to OU, but have not yet confirmed that they’ll be attending. Many of these students have been admitted to several universities, and are now deciding which one is the best fit. This is where The Experience comes in; we will have
about an hour to meet with these students during the brunch in a casual, “fireside chat” format to let them know all the great things about OU. We are seeking both students and faculty to participate. Our incoming students are interested in knowing what kind of an experience they can expect at OU, e.g., what is a typical day like for you as an A&GS major? How can students get involved? How big are classes? What about internships and study abroad? Career opportunites?

Take part in this fun event! It's only an hour, the food will be delicious, and the company simply outstanding. Let’s mentor young minds! If you're interested in volunteering please contact Asst. Dean Hempe at mahempe@ou.edu.

Weather Briefing Leaders still needed for Spring

Consider volunteering to lead a Weather Briefing this spring. METR 4491/METR 5491 is a for-credit course to help students learn to prepare and present a daily weather briefing by synthesizing weather information on all scales, preparing forecasts and communicating this clearly and succinctly to an audience. As part of this class, students find it very useful to see examples by the professionals, i.e. YOU. **Thus please consider volunteering to lead a weather briefing.** Briefings are open to the public, and will be held each Wednesday from 1:00 PM -1:50 PM in National Weather Center, Room 5600, and
can be any format (web based is most common); prep time is minimal. If you want a big audience, you can use the NWC weather wall in the Atrium, or the NOAA Hazardous Weather Testbed (HWT) to give your briefing. The following dates still need to be covered:

Feb. 3, 10, 17, 24
March 2, 9, 23, 30
April 6, 13, 20, 27
May 4

If you would like to volunteer, please contact Dr. Cavallo at cavallo@ou.edu with your preferred time and location and he'll contact you with more information.

ANNOUNCEMENTS FOR MM?
If you have any announcement you would like posted in Monday Memo (e.g., meetings, seminars, jobs, internships or just some great news) please send it to Asst. Dean Hempe (mahempe@ou.edu) by Friday at noon to appear in the next week’s edit
On This Day In History:

In 1533, Henry VIII of England secretly married his second wife Anne Boleyn, who later gave birth to Elizabeth I. When Boleyn later failed to produce a brother for little Liz, she was found guilty of trumped-up treason charges and beheaded on May 19, 1536. She was somewhere between 28-35 years old at the time (her birthdate has never been confirmed). She would have the last laugh when her daughter later became one of the greatest rulers in history.

In 1798, thermodynamics was born when American-born British physicist Benjamin Thompson, aka Count Rumford, presented a paper to the Royal Society titled *Enquiry concerning the Source of Heat which is excited by Friction*, in which he presented the idea that heat represents a form of motion, as opposed to the prevailing idea of it being a fluid. He
had come to this conclusion from observation that the boring of cannon barrels produces heat from friction.

**In 1821**, the Hudson River froze solid during the middle of the coldest winter in forty-one years. Thousands of people crossed the ice from New York City to New Jersey, and refreshment taverns were set up in the middle of the river to warm pedestrians. How we wish cameras had been around then to record it all!

**In 1858**, Felix Mendelssohn’s *Wedding March* was presented for the first time at the wedding of the daughter of Queen Victoria and the Crown Prince of Prussia.  
**In 1890**, the United Mine Workers of America was founded.

**In 1915**, the father of the telephone, [Alexander Graham Bell](https://en.wikipedia.org/wiki/Alexander_Graham_Bell), took his invention one step further with the first **transcontinental** call in the US. Previously, the longest long-distance call had been from New York to Denver, and the reception was terrible. This time, the world’s longest phone line (using 2,500 tons of hard-drawn copper wire, 130,000 poles and countless loading coils) hooked up Bell’s call in New York to his longtime assistant Dr. Watson in San Francisco and the reception was much improved.

**In 1924**, the first modern day Winter Olympic Games began in Chamonix in the French Alps. The U.S. only took home four medals that year. Just one was gold, which went to 24-year-old [Charles Jewtraw](https://en.wikipedia.org/wiki/Charles_Jewtraw) in the 500-meter speed skate.

**In 1949**, the first Emmy Awards were presented at the Hollywood Athletic Club. The winner of the most popular TV show was “The Pantomime Quiz,” a game show that (oddly) ran on all four networks during the Golden Age of Television.

**In 1965**, Alta, Utah, a popular ski area was in the midst of a
storm that would ultimately drop 105 inches of snow, establishing a record for the state. Nearly nine feet of snow is a lot, but it’s not out of character for the area. Located at the head of Little Cottonwood Canyon near the Great Salt Lake, Alta resides in a unique micro climate characterized by over 500 inches of high volume, low moisture snowfall annually.

**In 1981,** the 52 Americans held hostage at the embassy in Iran for 444 days arrived in the United States and were finally reunited with their families.

**And your parting shot:**

It’s easy to forget in this hectic world that Mother Nature has it all under control...these are Amazonian butterflies drinking tears from turtle eyes; the tears provide sodium for the butterflies (a mineral in short supply in the Amazon).
Please remember to like us on Facebook (https://www.facebook.com/OU.AGS) and follow us on Twitter (@OUAGS)!

The College of Atmospheric and Geographic Sciences
http://ags.ou.edu
ags@ou.edu