Happy Birthday Oklahoma! The Sooner state turns 108 years old today. Guthrie residents (above) celebrated statehood and the inauguration of first Governor Charles Haskell with a parade back on November 16, 1907.
This is the thirteenth week of the Fall 2015 semester.

**ALERTS:**

GIS DAY is tomorrow! Stop by the Union on Tuesday (11/17) to check out the GIS EXPO in the Ballroom.

- We’re now in **Week Four** of Advance Registration for Spring and Summer 2016 and classes are filling quickly. Have you been advised yet?
- There will be **no Walk-In Hours today or Friday** (11/16 and 11/20).
- You still have **FOUR MORE DAYS** to submit your entry for the 2015 Dean’s Photo Contest. The deadline to submit is **THIS FRIDAY, 11/20 at 5:00 PM,** in the A&GS Dean’s Office in the National Weather Center, Room 3630.
- If you need to **drop a class,** you must have approval signatures from your instructor and from the A&GS Dean’s Office on an official drop form. You must be passing the class at the time of the drop to earn a grade of ‘W’, and this W will apply toward the five maximum Ws you are allowed. When complete, take the form to Buchanan Hall Room 230 for processing.
Dean Moore is an internationally recognized climate scientist; here he presents an invited lecture on climate change and human impacts on the carbon cycle to NASA Langley employees.

**TOWN HALL MEETING TODAY**

Meet Dean Moore and find out how your student course fees are being used **today** at 3:30 PM in NWC 1350.

(L-R): GIS majors Alex Holland and Katy Franks, Master of Arts degree candidate Laura Holtzman, and Geography major Benjamin Ignac proudly display their awards.

**CONGRATULATIONS!**
DGES majors excelled at the recent South West American Association of Geographers (SWAAG) meeting, which took place November 3-6 in San Antonio, Texas. Heartiest congrats go to:

• **Alex Holland** and **Katy Franks**, who won first place in the undergraduate poster competition.

• **Laura Holtzman**, who won second place in the graduate student poster competition.

• **Benjamin Ignac**, who won second place in the undergraduate student paper competition.

*Great job, everyone!*  

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**METR Meeting this Thursday**

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Student Affairs Committee  
Annual Graduate Student Town Hall  
Thursday, November 19 @ 7:00 p.m.  
NWC 1350  
FREE PIZZA WILL BE PROVIDED!

Questions? Email Addison Alford or Liz DiGangi at addisonalford@ou.edu or edigangi2008@gmail.com.
Welcome New A&GS Staff Members

Please join us in welcoming two new friendly faces to the growing A&GS staff:

Shelby earned a Bachelor of Arts from OU, spring 2013.

Ms. Shelby Hill joins the School of Meteorology as an undergraduate advisor. Her office is located in the National Weather Center, Room 5900. Shelby worked for OU’s College of Education before coming to A&GS.

Ms. Jenny Spade joins the A&GS Dean’s Office as receptionist at
the front desk. Jenny most recently worked at the front desk in the Oklahoma Climatological Survey (OCS) office in the NWC.

Stop by and welcome Shelby and Jenny!

*The CART’s (Cleveland Area Rapid Transit) annual toy drive helps make the holidays special for kids in need.*

**Trolley toy cart still has lots of room...**

...but we don’t want it to! Let’s fill that thing to the brim! Or better yet, let’s fill it so full that toys are spilling out into the atrium! There are still two weeks left to drop off your new, unwrapped toy at the Security Desk in the National Weather Center or in the Department of Geography & Environmental Sustainability in Sarkeys Energy Center, Room 510. The deadline for toy drop-off is Monday, November 30.
Student Job Openings

The Radar Operations Center Applications Branch has a Student Job Posted at jobs.ou.edu under requisition number 23969.

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) still has two student job openings:

• The first is working with NSSL on exploring, developing and testing new hail and mesocyclone algorithms for WSR-88D. The job pays $9.50 an hour; the requisition # is 23500.
• The second is working on thunderstorm and lightning research. The job pays $9-$10 an hour; the requisition # is 23814.

You can see more details and apply for all jobs here.

A&GS Open Course Alert:
This Week's Seminars:
A full week of great presentations!

On Tuesday (11/17):
On Wednesday (11/18):

Southeast U.S. Cold Season Severe Thunderstorm Environments and Their Depictions Using Multiple Planetary Boundary Layer Parameterization Schemes

The primary goals of presented work are to identify meteorological characteristics of the southeastern U.S. cold season tornado environments and to improve numerical modeling of such environments focused on the parameterization of the planetary boundary layer (PBL). Forecasting tornadoes is particularly challenging in these environments owing to the inherent marginal nature of one of the necessary conditions supporting thunderstorm instability. It is hypothesized and demonstrated that thermodynamic and kinematic parameters characteristic of the near-storm environment for southeast U.S. cold season tornadoes are unique relative to other environments supporting of tornado storms. Associated flow regimes are sensitive to small variations of buoyancy concentrated within the lower atmospheric layers. Along with unique behaviors of kinematic and thermodynamic parameters through the diurnal heating and nocturnal cooling cycles, these findings motivate the need for more thorough investigation of PBL parameterization schemes in these particular regions.

The presentation will proceed with discussion of PBL schemes for the purpose of improving numerical modeling efforts. It is hypothesized that the incorporation of nonlocal mixing is necessary to accurately simulate the considered environments. Simulated thermodynamic and kinematic profiles using nine different PBL schemes, including ones that have been modified from legacy schemes, are compared with observed profiles for twenty one severe weather events. It is found that simultaneous representation of both nonlocal and local mixing is the most appropriate treatment of PBL processes for the Southeast U.S. cold season severe weather regime. These findings can directly benefit numerical modeling efforts for severe weather forecasting.
Also on Wednesday (11/18):

Chris Riedel, master of science degree candidate in OU’s School of Meteorology, will present “Improved Characterization and Prediction of Antarctic Weather Through Ensemble Data.”
Assimilation and Utilization of the CONCORDSAIS Data Set” at 3:00 PM in the National Weather Center, Room 5930.

On Friday (11/20):

Bryan Putnam, doctoral degree candidate in the School of Meteorology, will present “The Prediction and Assimilation of Polarimetric Radar Data Using Ensemble-Based Methods” at 3:00 PM in the National Weather Center, Room 5600.

Also on Friday (11/20)…
The University of Oklahoma
Department of Geography
and Environmental Sustainability
Seminar Series

Colloquium
Fall 2015

September 18
Razia Mahmod
Department of Geography and Geology
Western Kentucky University

September 25
Jimmy Adegoke
Department of Geosciences
University of Missouri
Kansas City

October 23
Jeff Wiltgen
Trashified Project
Huston-Tillotson University
Austin, TX

October 30
Jennifer Joch
Department of Geography and Environmental Sustainability
University of Oklahoma

November 20
Corin de Freitas
Liu Institute for Global Issues
University of British Columbia

December 11
Jad Ziolkowska
Department of Geography and Environmental Sustainability
University of Oklahoma

“Old Chico’s New Tricks: Governance Changes and Bulk Water Charges in Brazil’s São Francisco River Basin”.

Corin de Freitas
Liu Institute for Global Issues
University of British Columbia

In 1997, Brazil passed water sector reforms mandating bulk water charges and decentralized and participatory decision-making at the river basin scale. Neoliberal nature researchers have suggested that similar governance trends may further neoliberalization. Economic instruments can promote commodification by reframing water as an economic good and prioritizing its economic value. Rescinded and decentralized participatory governance may be intended to render decision-making more equitable, accessible, and relevant but can instead legitimate, facilitate, and more deeply embed neoliberalizing processes. An analysis of the São Francisco River Basin reveals, however, that the reforms’ articulation with robust competing political projects challenges both narratives. Governance patterns in the basin demonstrate greater continuity than rupture, largely dominated by a “traditional elite” whose enduring power derives from mediating the state-society relationship and (mis)using state resources and authority. Activists have employed elements of the reforms, including bulk water charges, in creative and unprecedented ways to advance a more just and equitable socio-environmental agenda. Neoliberalization’s relative contingency and subordinacy to these competing political projects offer an interesting perspective on variation and contestation in neoliberal nature debates.

Sarkeys Energy Center (SEC) A235
November 20 at 3:30 pm
All seminars will begin with coffee & socializing at 3:15
For more information visit http://geography.ou.edu/
Accommodations on the basis of disability are available by contacting the
Department of Geography and Environmental Sustainability at 325-0326

SUCCESS IS THE SUM OF SMALL EFFORTS, REPEATED
DAY IN DAY OUT

Robert Collier (InspirationBoost.com)
Student Success Series

University College’s fall 2015 Student Success Series (SSS) offers the final TWO seminars for the fall 2015 semester this week:

**Tuesday, November 17**       Final Exams - Test
Management                   4:30 PM - 5:30 PM           Wagner Hall, Room 250

**Wednesday, November 18**      Overcoming
Procrastination              4:00 PM - 5:00 PM             Wagner Hall, Room 250

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 1620, sixteen starving British Pilgrims stumbled upon the first corn (maize) found in the U.S. The corn came from a previously harvested cache that actually belonged to a local tribe of Native Americans. While the Brits didn’t think to thank the original owners of the corn (they thanked God for letting them find it, though), they credited the corn with saving their lives that first rough winter in the New World.

In 1776, British troops captured Fort Washington, the last American stronghold on Manhattan Island, during the American Revolution.

In 1914, the United States Federal Reserve System officially began when twelve regional Federal Reserve banks opened for business. President Woodrow Wilson signed the Federal Reserve System into law the previous December; the decentralized banking system was supposed to balance the interests of private banks and public opinion.

In 1915, Coca-Cola patented a prototype for its now famous contoured bottle.
In 1942, work began at the University of Chicago on an experimental atomic pile to investigate the world's first artificial nuclear chain reaction. The makeshift nuclear lab was located underneath the stands of the University's football stadium, Stagg Field. A few weeks later, at 3:25 PM on December 2, 1942, the nuclear age began when Enrico Fermi and his team achieved the first self-sustained nuclear chain reaction in that lab. The experiment provided a crucial contribution to the Manhattan Project, a secret wartime endeavor that created the first nuclear weapons.

In 1945, 88 German scientists (most of who had served under the Nazis) arrived in the U.S. to help American scientists develop rocket technology along the lines of the super-destructive V-1 and V-2 rockets the Germans had used during WWII. Realizing that the American public wouldn’t be too thrilled to welcome anyone remotely connected to the Nazis, the military kept the project cloaked in secrecy, announcing only that “some” German scientists had “volunteered” to come to America for “a very modest salary.”

In 1958, more than six inches of snow fell on Tucson, Arizona. In 1973, Skylab III, carrying a crew of three astronauts, was launched from Cape Canaveral, Florida on an 84-day mission that remained the longest American space flight for over two decades. Among the thousands of experiments conducted during this flight, the astronauts took four space walks, including one on Christmas Day to observe the comet Kohoutek. After 1214 orbits, the crew returned to Earth, splashing down on February 8, 1974.

In 1973, President Richard Nixon signed the Alaska Pipeline measure into law.
In 2006, an F-3 tornado hit Riegelwood, North Carolina, killing eight people.

And your parting shot:

After the horrific attacks on Paris last Friday, countries around the world showed solidarity with France this weekend by displaying the colors of the French flag on to their famous facades:
Please remember to like us on Facebook ([https://www.facebook.com/OU.AGS](https://www.facebook.com/OU.AGS)) and follow us on Twitter (@OUAGS)!

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