



# NWA NEWSLETTER

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## Important Dates

July 26: Early Bird Registration closes for NWA Annual Meeting (see page 5)

Sept. 10: WeatherReady Fest (see page 8)

Sept. 10-15: 41st NWA Annual Meeting (see page 6)

*The NWA: Connecting operational meteorologists in pursuit of excellence in weather forecasting, communication and service.*

## 2016 APEX Award



The NWA Newsletter team of Hulda Johannsdottir, Winnie Crawford, Grant Tosterud, Mollie Doll and Janice Bunting won an [APEX 2016 Award of Excellence](#) for the NWA Newsletter.

APEX Awards are based on excellence in graphic design, editorial content and the ability to achieve overall communications excellence.

APEX Grand Awards honor the outstanding works in each main category, while APEX Awards of Excellence recognize exceptional entries in each of the individual categories. There were over 1,600 entries with 86 Grand Awards honoring outstanding work in 11 major categories, and 632 Awards of Excellence recognizing exceptional entries in 100 subcategories.

The NWA Newsletter won the award in the Electronic and Email Newsletter category.

Congratulations to the Newsletter team, and thanks to all NWA members who contribute articles! The success of our Newsletter truly is a team effort.

## Lahaina Noon By Grant Tosterud

At any given time, the sun is directly overhead a certain point on the Earth's surface. This point is called the subsolar point, where the sun's rays hit the planet perfectly perpendicular to surface. The subsolar point will occur twice a year on locations between the Tropic of Cancer and the Tropic of Capricorn as it traverses the Earth. This point's location will also change with the tilt of the Earth and the local time of day.

In the U.S. however, this phenomenon only occurs in one place given its location south of the Tropic of Cancer, Hawaii. Locals call it "Lahaina Noon." The word Lahaina in Hawaiian translates to "cruel sun," first coined in a 1990 contest at the Bernice Pauahi Bishop Museum in Honolulu. While the event occurs on different dates depending on the location on the island chain, what makes this unique is the visual affect the sun has being perfectly overhead.

Twice a year, during Lahaina Noon, shadows of vertical objects fall straight down causing the shadow to essentially disappear. When these objects are photographed, they play a visual illusion, appearing unnatural to the eye.

A piece of public art in Honolulu called "Skygate" is a twisted metal sculpture located near Honolulu City Hall. During most of the year, the sculpture will cast a warped shadow of the twisting metal on the ground. However, the two times a year Lahaina Noon occurs, the art piece will cast a perfectly circular shadow below itself.

The next Lahaina Noon occurrence for Honolulu will be July 15 at 12:37 p.m. Maps can be found online that show the current location of the subsolar point on Earth. (Top photo courtesy of "AstroBob"; bottom photo courtesy of the Kauai Health Guide, Hawaii.)



## WEATHER NEWS FLASH



Weather New Flash is a new segment we will run each month to bring you interesting news factoids and stories from around the globe. Click titles for details!

### 1891: Searing Heat in New York

The heat for the past few days has been phenomenal even for New York.

### 3D-Printed Weather Stations Will Bring Zambia the Latest Forecast

For a farmer in rural Zambia, knowing when it will rain and when the region is expected to get hit with an extended drought is crucial.

### Extreme Heat Buckles Highways, Sends Vehicles Flying

Several days of 90-plus-degree heat buckled roads across Minnesota, launching speeding vehicles toward the horizon like the got'dang Dukes of Hazzard.

### NOAA Lightning Safety

Lightning strikes the United States about 25 million times a year.

### Texas Weather Radar Picks Up a Strong 'Bat Signal'

OK, not THAT bat signal. But radar did detect the presence of more than a dozen bat "storms..."

# NWA 41st Annual Meeting Special Events

## Student Speed Mentoring

Sunday, September 11  
as part of the 8th Annual  
Student Session

An Opportunity for Professional Engagement  
Speed Mentoring is Back in Norfolk!

Each of these people want to share their unique but amazing career story to CONNECT with and help people like you have a professionally satisfying and personally fulfilling career.

YOU will have the chance to meet and talk with 30+ professionals in meteorology and the related sciences. Meteorologists from across the public, private and academic sectors, to include forecasters, broadcasters, teachers and private sector practitioners, will be represented in a SPEED MENTORING SESSION.

## Weather Analysis and Forecasting Master Class

Sunday, September 11  
seating is limited

The 3rd Annual Weather Analysis and Forecasting Master Class is sponsored by the Weather Analysis and Forecasting Committee.

This Master Class will provide students with an opportunity to interact with National Weather Service meteorologists while gaining a better understanding in forecasting high-impact weather.



## NEW NWA MEMBERS

Please welcome these members who joined the NWA in May 2016!

### Regular/Retired/ Active Military Members:

John Basham  
Stephen Davenport  
James Demps  
Edward Garcia III  
Danielle Grant  
Ivan Guzman  
Alex Kirchner

James Kosek  
Gary McWilliams

### Student Members:

Ryan Gallagher  
Mussie Kebede  
Brian Kennedy  
Joshua Kittle  
David Mitchell



## How the Other Half Works

### June President's Message

By Dave Freeman, 2016 President



Now that you have met the fantastic professional staff that keeps the NWA humming ([May President's Message](#)), you need to meet the other half: those elected to serve the NWA.



As you read this, the governing Council of the NWA has just completed its mid-year meeting at the home of the NWA offices in Norman, Oklahoma. Twelve Councilors and the officers make up the NWA's governing body. The officers consist of the President, President-Elect, Vice President, Secretary, Treasurer, and Immediate Past President. This working group is completed by our Student Member, Commissioner of Committees and Executive Director. The Student Member is accorded voting privileges by the Council, while the Commissioner of Committees and Executive Director serve as ex officio, or non-voting, members. This body decides the strategic direction of the Association, creates and directs the work of the committees, provides oversight of management and finances, and hires the Executive Director, among other duties.

This year, the Council is meeting twice in person and at least twice by conference call. In addition to these formal meetings, the Council is able to keep a flow of guidance going through utilizing web-based project management software. This allows for fruitful discussions and votes on both time-sensitive items and more routine matters. This also accomplishes an important developmental step—it frees up the Council's meeting time for more in-depth consultation on the overall direction and development of the NWA.

In addition, the officers comprise the Executive Committee and the Finance Committee. This body is meeting twice in person this year, and monthly by conference call. The Executive Committee serves as a group of advisors to the Executive Director in her day-to-day management of the Association. The Executive Committee also deals with personnel matters and other sensitive topics. The Executive Committee is a valuable source of advice and counsel to the President! As for the Finance Committee, it provides detailed oversight and counsel on the finances of the Association to the Council.

As you read this, I am also reaching the halfway point in my term of service as President. I have been deeply impressed by this great group of people. They are smart, dedicated individuals who set aside personal interests for the betterment of the NWA, and the betterment of our profession. It is sincerely a pleasure to work with them!

And, may I say, that in the coming months you will see some really exciting developments that are the fruits of their labors, and marks of the progress and growth of your National Weather Association.

Stay tuned....



*NWA Council 2016*

*Bottom row: Trisha Palmer, Elise V. Schultz, Dr. Elizabeth Page, Gail Hartfield, Jennifer McNatt, Randy Graham, John Gagan. Middle row: Janice Bunting, William Murray, Alan Gerard, David Freeman, Greg Stumpf, Chuck Graves, Pat Spoden. Top row: Mike Goldberg, Nate Johnson. (Not pictured: Todd Lericos, Nick Walker, Susan Jasko, Sarah Trojniak and Ken Carey.)*

# 41st NWA Annual Meeting: Keynote Speakers

As we get closer to the NWA 41st Annual Meeting, we will continue highlighting our keynote speakers. This month, we spotlight Dr. Kathryn D. Sullivan, Under Secretary of Commerce for Oceans and Atmosphere and NOAA Administrator.

Dr. Kathryn Sullivan was confirmed by the Senate as the Under Secretary of Commerce for Oceans and Atmosphere and NOAA Administrator on March 6, 2014, having served as Acting NOAA Administrator since February 28, 2013. She is a distinguished scientist, renowned astronaut, and intrepid explorer.

Dr. Sullivan's impressive expertise spans the frontiers of space and sea. In 1978, Dr. Sullivan was one of the first women selected to join the NASA Astronaut Corps and holds the distinction of being the first American woman to walk in space. She flew on three shuttle missions during her 15-year tenure, including the mission that deployed the Hubble Space Telescope.

In 1993, she was appointed NOAA's Chief Scientist, where she oversaw a research and technology portfolio that included fisheries biology, climate change, satellite instrumentation, and marine biodiversity.

After three years of service as Chief Scientist, Dr. Sullivan served a decade as President and CEO of the Center of Science and Industry (COSI) in Columbus, Ohio, one of the nation's leading science museums. She then acted as inaugural Director of the Battelle Center for Mathematics and Science Education Policy in the John Glenn School of Public Affairs at Ohio State University.

Prior to her appointment as Acting NOAA Administrator, Dr. Sullivan held the position of Assistant Secretary of Commerce for Environmental Observation and Prediction and Deputy Administrator, and also performed the duties of NOAA's Chief Scientist.

As Assistant Secretary, Dr. Sullivan played a central role in directing Administration and NOAA priority work in the areas of weather and water services, climate science and services, integrated mapping services, and Earth-observing capabilities. She also provided agency-wide direction on satellites, space weather, water, and ocean observations and forecasts to best serve American communities and businesses. As Deputy Administrator, she oversaw the smooth operation of the agency.



In February 2016, Dr. Sullivan was elected a member of the National Academy of Engineering, honoring her outstanding commitment and contributions to "engineering research, practice, or education." She was also named a fellow of the American Meteorological Society, a premier scientific and professional organization promoting and disseminating information about the atmospheric, oceanic, and hydrologic services.

Dr. Sullivan is the United States Co-chair of the Group on Earth Observations (GEO), an intergovernmental body that is building a Global Earth Observation System of Systems (GEOSS) to provide environmental intelligence relevant to societal needs.

Dr. Sullivan has also served on the National Science Board (2004-2010) and as an oceanographer in the U.S. Navy Reserve (1988-2006). She holds a bachelor's degree in earth sciences from the University of California at Santa Cruz and a doctorate in geology from Dalhousie University in Canada.

Dr. Sullivan's keynote speech, titled "Better Science in the American Weather Enterprise," is scheduled for Monday, September 12, 2016.

## Diversity University NWA Diversity Committee

*The NWA Diversity Committee was established to assist weather professionals in learning how to be successful contributors in a diverse workplace.*

The month of June has been traditionally chosen for Lesbian, Gay, Bisexual, and Transgender (LGBT) Pride Month to commemorate the Stonewall riots, which occurred at the end of June 1969 in New York City. This event marked the beginning of the LGBT rights movement in the U.S. At the first year anniversary of the Stonewall riots, Pride marches were held in Chicago, Los Angeles, and New York City. The following year the Pride marches were held in many more cities across America and even traversed continents with Pride marches occurring in West Berlin and Stockholm. To this day, because of those who stood up for themselves and fought for equality, many Pride events are held during June to recognize the impact LGBT citizens have had in their communities, nationally, and around the world.

On several occasions, U.S. presidents have officially declared June as LGBT Pride Month. President Bill Clinton declared June "Gay and Lesbian Pride Month" on June 11, 1999, and President Barack

Obama has declared June as LGBT Pride Month each year of his administration, including this year. While Pride events play a key role in raising the profile of the community and commemorating the history of the LGBT social movement, Pride also marks an opportunity for the community to come together, take stock and recognize the advances made in the past year. It is also a chance for the community to come together and celebrate in a festive, affirming, and positive atmosphere.

Even with the monumental Supreme Court ruling last year on marriage equality, there are still obstacles and prejudices experienced by the LGBT community. In some states, LGBT individuals can be fired from their jobs just because of their sexual orientation. Bullying and violence are common, punctuated by the horrific massacre at Pulse, an LGBT night club in Orlando, Florida. Pride Month events allow the continuation of awareness through these unifying acts in communities across the nation in the efforts to promote tolerance and the advancing equality for the LGBT community.



## NWA CHAPTER NEWS

### THE HIGH PLAINS NWA/ AMS CHAPTER NEWS

William Taylor, President  
Wesley Hovorka, Secretary

The High Plains NWA/AMS Chapter held a virtual meeting on June 6 with 21 chapter members on the phone call. An update on the High Plains Conference in August and a treasury report were discussed. Cory Martin from the North Platte NWS office said there are four keynote speakers confirmed for the conference as well as the possibility of Josh Wurman from the Center for Severe Weather Research to be the speaker at the banquet. He said there are about 15 talks lined up for the conference, and hopefully more will come in by the July 1 deadline. The High Plains Chapter banquet cost is \$25. An email will be sent out in the near future to everyone who has registered to provide food choices. Cory informed the group that breaks during the conference will be longer this year at 20 minutes. William Taylor reminded everyone planning to attend to register for the event. Jeremy Wesely gave a treasury report for the chapter bank account and Jim Johnson Scholarship fund.

The business meeting concluded with a presentation by Dave Floyd, Meteorologist in Charge from the NWS office in Goodland, Kansas (GLD). The topic was issues experienced during a severe weather event on May 26. A fiber-optic communication line was cut during nearby construction in the afternoon, severing communications to and from the office. To rectify this problem, the Information Technology Officer at GLD first transferred land lines to the office cell phones, then backed up to the VSAT antenna so products could be sent out to the world. Everything seemed to be working until later in the afternoon when severe weather started to occur close to GLD. Due to VSAT antenna attenuation from the storms, data transmission to and from the office was blocked. The Pueblo, Colorado, NWS office (PUB) tried to backup GLD at this time, but since the communication line was cut and the storms blocked the signal from products being sent out, they could not see GLD's radar images. Since GLD was still able to see the radar data, the solution was to call PUB each time they wanted to issue a warning, describing to PUB where they wanted the polygon to be located and for what duration. This went on until around 10 p.m. when the severe weather exited the area. The fiber-optic cable was fixed around midnight.

[www.highplains-amsnwa.org](http://www.highplains-amsnwa.org)



## MAKE MY DAY!

Many of us are meteorologists because a Mentor made the weather interesting for us when we were young! Come spend a rewarding day of public outreach at the NWA WeatherReadyFest in Norfolk Sept 10th! It will be the kickoff for the NWA Annual Meeting! Be sure to arrive on Friday 9/9! The WeatherReady Fest is delivered by FedEx!

- Serve as a Volunteer or teach a Scout Patch Module.
- Plan and run a fun meteorological game or activity.
- Exhibit your product or organization with a FREE booth.
- Be a Speaker, presenting a weather topic.
- Be a Leader, overseeing a team helping to make it happen!
- Sponsor the event, helping to underwrite the cost!

Go to [www.nwas.org/meetings/nwas16/weather\\_fest.html](http://www.nwas.org/meetings/nwas16/weather_fest.html) for complete info and sign up forms!

**REGISTER NOW**  
*Before*  
**EARLY BIRD REGISTRATION**  
*Closes*  
**JULY 26**

[www.nwas.org](http://www.nwas.org)



# 41st NWA Annual Meeting, September 10-15, 2016

## REGISTRATION NOW OPEN

[click to register](#)

**Location:** Norfolk, Virginia

### 41st NWA Annual Meeting

#### Venue and Hotel:

[Norfolk Waterside Marriott](#), 235 East Main Street, Norfolk, VA

[See page 7](#) for hotel and lodging information



### Theme: Better Science, Better Communication, Better Results

Operational meteorologists constantly strive to improve the science behind the forecast. We also want to make sure the people we serve receive, understand and then act on the information that we provide. If we utilize the best possible science and are effective communicators, lives will be saved and impacts to the economy minimized. Join the National Weather Association in Norfolk and help the weather enterprise advance on this path of service.

### Important Dates in 2016

- **Early Bird Registration Closes:** July 26
- **2016 NWA Annual Meeting:** September 10-15

### Schedule of Events

- [WeatherReady Fest](#) at Nauticus: Saturday, September 10
- **Broadcast Meteorology Workshop:** Sunday, September 11
- **Ninth Annual Student Session including Speed Mentoring:** Sunday, September 11
- **General Sessions:** Monday-Thursday, September 12-15
- **Workshops for K-12 Teachers:** Tuesday, September 13
- **NWA Annual Awards Luncheon:** Wednesday, September 14

The Abstract Submission Period is CLOSED.

[A preliminary agenda](#) is online for presenters to review.

The Annual Meeting Program Committee Co-Chairs are:

#### Ken Carey

ERT, Inc

Laurel, MD 20707

[annualmeeting2016@nwas.org](mailto:annualmeeting2016@nwas.org)

#### Mike Vescio

NOAA National Weather Service

Pendleton, OR 97801

[annualmeeting2016@nwas.org](mailto:annualmeeting2016@nwas.org)

The Broadcaster Workshop Program Chair:

#### Mike Goldberg

WTVR-TV

Richmond, VA 23230

[broadcasterworkshop2016@nwas.org](mailto:broadcasterworkshop2016@nwas.org)

### Additional Information

For more information on exhibits, special accommodations, registration and the overall meeting program, keep checking the [2016 Annual Meeting Page](#) and its links, or contact the NWA office: 405-701-5167 or [nwahelp@nwas.org](mailto:nwahelp@nwas.org).

NWA will provide updates on this Web page, on the [NWA Facebook Page](#), [Twitter](#) and other social media. Please use the hashtag [#NWA516](#) for any tweets associated with the 2016 Annual Meeting.



Photo courtesy of Visit Norfolk

## New Seal Holder: Maureen McCann

Maureen McCann is a meteorologist with News 13 in Orlando, Florida. Originally from New England, she was hooked on weather when Hurricane Gloria roared through her hometown. After graduating from Cornell with a bachelor's degree in atmospheric science, she worked in Bangor, Syracuse and Denver before making the move to Orlando. She is active in the AMS, serving as the Commissioner on Professional Affairs and previously served on the Board of Broadcast Meteorology. In addition to the NWA Seal of Approval, she has earned both the AMS Certified Broadcast Meteorologist and Certified Consulting Meteorologist designations, one of a small number of meteorologists to have earned both. In addition to following the weather, she enjoys skiing, yoga, tennis, golf, and running, including having run the Disney Marathon.

She's a big fan of Boston sports teams, Huey Lewis and the News, and she's an active member of a local Rotary Club.



# 41st NWA Annual Meeting: Hotel & Overflow Hotel

Meeting Venue and Hotel: Norfolk Waterside Marriott,  
235 East Main Street, Norfolk, VA 23510

([www.marriott.com/hotels/travel/orfws-norfolk-waterside-marriott/](http://www.marriott.com/hotels/travel/orfws-norfolk-waterside-marriott/))

Reservations may be made online or by calling 1-800-874-0264 and telling them you're attending the National Weather Association meeting.

The room block is open until August 17, 2016, or until the NWA block is full.

Hotel rates are as follows:

Number of Guests 1-4

Nightly Rate Before Tax: \$87.00

Click to make your  
reservation  
<http://goo.gl/G8OzpV>

- Prices listed are per night and do not include tax or fees. The current tax rate is 14% and/or \$2.00 per room night occupied. Rates are subject to change.
- When requesting the room, they will ask how many will occupy the room. This will enable them to provide the correct type of room for the number of guests. (i.e., one bed vs. two beds). Rooms with two double beds cannot be guaranteed in advance unless this request appears as confirmed on your reservation.
- All reservation requests will require a credit card or a one room night deposit, to guarantee the room. Any

deposits will be refunded for rooms canceled more than 72 hours prior to scheduled arrival. If you do not check into the hotel on your scheduled arrival date and do not cancel more than 72 hours in advance, one (1) room night cost will be charged to the credit card used to guarantee the room.

- Name changes to room reservations may be made up to one day prior to arrival.
- Check-in is available after 4 p.m. on arrival day; check-out is at 11 a.m.
- Complimentary Internet in all NWA attendee guest rooms.
- The hotel has a [smoke-free policy](#).

## Additional Information

- Reduced overnight Self-Parking of \$14 (Main Street garage only). A 6% tax will apply.
- Valet parking is available for \$26/day for hotel guests.
- Taxi rides between the airport and hotel average around \$30. The hotel does not provide shuttle service.

The meeting sessions will be held at the hotel. [Visit Norfolk](#) has more info on restaurants, transportation and activities in the Norfolk area.

## NEW: Overflow Hotel Information – Sheraton Norfolk Waterside

[Sheraton Norfolk Waterside](#)  
777 Waterside Dr  
Norfolk, VA 23510

Reservations may be made online through this site, or by calling 1-800-325-3535 and telling them you are attending the National Weather Association meeting.

<https://www.starwoodmeeting.com/events/start.action?id=1606094863&key=2338456F>

The room block is open until August 25, 2016, at 5 p.m. EDT, or until the NWA block is full.

Hotel rate is \$87 per night for one to four guests and does not include tax or fees. The current tax rate is 14% + a \$2.00 flat bed tax per room night. Rates are subject to change.

Individuals must guarantee their reservation with a credit card or deposit at the time of check-in.

Check-in is available after 3 p.m. on arrival day; check-out is at 12 p.m.

Complimentary internet in all NWA attendee guest rooms. The hotel is a non-smoking hotel.

Parking: Convenient, covered and secured automobile self-parking is located at the Dominion Tower Parking Garage, adjacent to the hotel and other nearby facilities. Parking is subject to availability. Prices for parking are subject to change.

Self-parking for overnight guests at Dominion Tower Parking is \$12 per car/day. Taxes may apply.

Overnight valet parking is available upon request for \$22/day for hotel guests. Taxes may apply.

Valet parking during an event is \$12/day. Taxes may apply.



## NWA UP CLOSE: The Aviation Committee

This is part of a series of interviews with our NWA committee chairs. This interview was conducted by Grant Tosterud, our NWA student intern, with the chair of the Aviation Committee, Jim Reynolds (pictured),

### *What does the Aviation Committee do, and what are the different aspects and roles of your committee?*

The Aviation Committee has two main roles: the first is to address current issues of importance to the aviation community, and the second is to improve weather education for pilots and other operational personnel who have a strong need for weather information. Both of these roles are met by tapping into the knowledge possessed by those in the aviation community that run the gamut from the public and private sectors, as well as academia.

### *What are the committee's goals?*

One ongoing issue within the aviation community is that of gathering, disseminating, and utilizing pilot reports (PIREPs) that are highly relevant to any planned flight. The Aviation Committee has the continuous goal of looking for ways to improve the PIREP system by leveraging the knowledge and experience within the committee in order to ensure a safe flight environment for everyone.

### *What are the biggest projects your committee is working on?*

Members of the committee are involved with improving model guidance in support of flight weather, while others are working to increase the understanding of certain atmospheric phenomena and their effects on aircraft in flight.

### *What is the biggest challenge your committee faces?*

Similar to the educational and experiential differences within any demographic, consumers of aviation weather information range from those with advanced degrees in meteorology to those who would have no involvement in weather if it wasn't required in their occupation. This makes tailoring aviation weather education efforts for any group very challenging. Additionally, there are few avenues to uniformly funnel aviation weather education throughout the aviation community.

### *What is the greatest strength of your committee?*

The members of the committee all have some tie to aviation, whether they provide flight weather support or meteorological instruction to pilots, or are pilots themselves. The shared passion for aviation within the committee is the driver that

leads to many positive results within the aviation community as a whole.

### *What is the most important thing you have learned serving as a committee chair?*

I have been very moved by the willingness and spirit of those within the entire NWA to serve the needs and goals of the organization.



## Look Before You Lock!

The temperature in your car can quickly become deadly!

### Fact:

A dark dashboard or seat can easily reach temperatures around 180 to over 200°F.

**YOU Can Prevent Heat Related Deaths!**



[weather.gov/heat](http://weather.gov/heat)





## PROFESSIONAL DEVELOPMENT & EVENTS

### NWA Sponsored Meetings, Conferences & Special Events in 2016

(Click titles for more information)

August 10-11: 2016 High Plains Conference

September 10-15: 41st NWA Annual Meeting  
"Better Science, Better Communication,  
Better Results" is the theme of the  
2016 Annual Meeting being held in  
Norfolk, Virginia. ([See pages 6 and 7](#)).

### Other Meetings, Conferences & Special Events

October 14-19: 64th Annual IAEM  
Conference and EMEX

The International Association of  
Emergency Managers will hold this  
year's annual conference in Savannah,  
Georgia.

## Newsletter Submissions

We welcome articles from members. Send  
to [nwanewsletter@nwas.org](mailto:nwanewsletter@nwas.org)  
by the 15th of the  
month for publication  
in the following month's  
edition at the earliest.  
Newsletter info and a link  
to author guidelines can  
be found at [www.nwas.org/newsletters/](http://www.nwas.org/newsletters/).



## We want your weather photos! MEMBER PHOTO SPOTLIGHT

Submit to [gtosterud@nwas.org](mailto:gtosterud@nwas.org)



### NWA Member Photo Spotlight

"Monsoonal Sunrise over the Sierra Nevada Mountains"



Terry Lankford, July 2014

*Flying down the east side of the San Joaquin  
Valley in California at 9,500 feet*

## You're On Social Media... So Are We!



NWA Newsletter (ISSN 0271-1044)

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Published monthly by the National  
Weather Association, 3100 Monitor  
Drive, Suite 123, Norman OK 73072  
phone: (405) 701-5167;  
[exdir@nwas.org](mailto:exdir@nwas.org); [www.nwas.org](http://www.nwas.org).

Submit newsletter items to  
[nwanewsletter@nwas.org](mailto:nwanewsletter@nwas.org) using the  
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Address, phone number, email and  
affiliation changes can now be  
made online: [member.nwas.org](http://member.nwas.org).

