



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

No. 14 – 10/11

Newsletter

OCTOBER/ NOVEMBER

2014

National Weather Association Dues Increase

The NWA 39th Annual Meeting was held October 19-23 at the Sheraton Salt Lake City Hotel in Salt Lake City, Utah, before a large and enthusiastic audience. A record number of abstracts were submitted leading to an outstanding selection of oral and poster presentations given before a record number of registrants for a western meeting. During the annual mid-week business meeting, the NWA Council reviewed the financial state of the organization with particular emphasis given to the rising costs of not only maintaining but enhancing member services.

Several initiatives are anticipated in the months and years ahead as the organization seeks to improve its membership data base, update its website and manage the new Digital Seal. These activities, which will enhance membership services and improve the online experience, will add to the daily administrative responsibilities of the staff in Norman, Oklahoma. Current regular dues of \$50 per year are not sufficient to sustain, let alone grow, the organization in a fiscally responsible manner. Therefore, the Council approved a \$10 increase in regular dues and a \$50 increase in dues for corporate members. Beginning January 1, 2015, regular member dues will be \$60 and corporate member dues \$250.

This is an exciting time for the NWA and for operational meteorology. The leadership under the guidance of the Council and Executive Director Janice Bunting is dedicated to meeting the future challenges of a vibrant and diverse organization. This modest increase in dues will enable the NWA to address much needed improvements to its infrastructure while ensuring the future vitality of the organization.

John Scala, NWA Treasurer,
Past President and Councilor

NWA Digital Seal of Approval



The NWA now offers a new certification program for weather content produced exclusively on the Internet. The Digital Seal of Approval may be applied for and earned by webcasters and electronic weather

blog writers.

“With the inundation of weather webcasts and blogs on the Internet, the public has little way to determine if their forecasts and other meteorological details are from a knowledgeable source,” said NWA President Jeff Craven. “This new Digital Seal of Approval adds credence to our field – and will help the public identify reliable weather sources.”

The Digital Seal program was conceived by the NWA Broadcast Meteorology Committee (BMC) in 2009. A special study was commissioned in early 2013 to determine the need for such an endeavor and to establish, for the public interest, a way to gauge Internet weather information sites. After many years of refining, the NWA Digital Seal is now ready to launch.

“This will separate the professionals from the amateurs, and help the public know which weather bloggers or webcasters have exhibited a solid understanding of meteorology,” said Miles Muzio, BMC Chair.

All Digital Seal holders may prominently display their certification on webcasts and electronic weather blogs. The Seal is an indication of excellence as determined by the NWA.

The NWA is accepting applications from weather webcasters and bloggers who want to be considered for the Digital Seal of Approval. [Click for details](#). See who the first three seal holders are on [page 6](#).



***The NWA mourns the
passing of charter member
and former Executive
Director (1981-1992),
Sol Hirsch.
See page 3***

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It is not About the Total Snow Amount, it is the Rate

Jeff Craven, NWA President

After the bone-chilling winter of 2013-2014, which set all kinds of records in the northern Plains and upper Midwest, I was certainly looking forward to summer. After seemingly blinking my eyes, summer has come and gone. The Holidays are rapidly approaching and so is winter. It is hard to find words that describe my level of dread and disappointment. I love forecasting and experiencing winter weather, but could live without the prolonged cold that goes with it. But, since I have little control over the earth's orbit around the sun and the 23.5 degree tilt of the axis (and since I live in the frozen tundra of Wisconsin), it is time to serve the needs of our customers for snow and ice events.

Several years ago I was discussing the issue of forecasting snow amounts in the Great Lakes area. During the conversation, I was focused on snow-to-liquid ratios, but fellow Science and Operations Officer Greg Mann from the Detroit, Michigan, NWS office objected.

"It is all about the rates, Jeff. That is what causes most of the important impacts."

Greg was right. Timing and hourly rates are what seem to matter most, along with the road temperature. Snow ratio may be important for influencing the total depth of snow, but ultimately moderate to heavy snow with reduced visibilities and rapid accumulation rates plays a bigger role in impacts to drivers and road crews.

Six inches of snow between 10 p.m. and 4 a.m. Friday night into Saturday morning may end up being a minor issue. Two inches of snow between 3 and 5 p.m. on a weekday with temperatures in the lower 20s can have a huge impact on evening rush hour. With our historic emphasis on thresholds, an NWS forecaster in Wisconsin might issue a Winter Storm Warning on the first example above, yet may skip any headlines for the second example. However, most would agree that the potential for adverse impacts is much higher for a couple of inches of snow at rush hour with frozen pavement than for six inches of snow late at night over a weekend.

This is the essence of making a journey from thresholds to impacts. Those of you who enjoyed attending the NWA 39th Annual Meeting in Salt Lake City got to see some great presentations on impact-based decision support services. Patricia Boyle of the UKMET Office gave a keynote presentation about their journey towards impact-

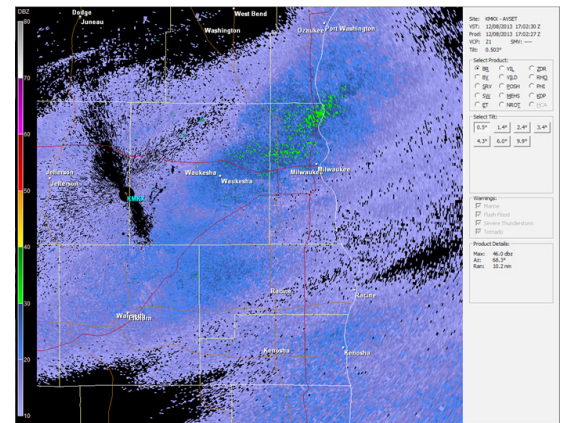
based products and harnessing a threat matrix. As you can see in the image, the matrix compares the confidence of the event occurring versus the impact of the threat. If you have high confidence of a high impact, then you will be in the red at upper right. Notice that a low likelihood of a high impact is orange, and a good example of that would be an

isolated tornadic thunderstorm.

So why the big deal? Why not continue to issue products based on thresholds? If we forecast four inches of snow and put out a snow advisory, why doesn't that satisfy the needs of the customer? Here is just one example of something that did not appear to be a big deal ended up having major impacts.

Milwaukee General Mitchell Airport had 3.4" of snow fall on December 8, 2013. Not really a big deal as it was the third snowfall of the season; however, it was rather cold. The previous day's high temperature was 17 F, and the morning low was 11 F. When the snow arrived in mid morning, temperatures had risen to the middle 20s and winds were about 10 knots. Most road treatments like salt are less effective at melting snow and ice when temperatures are in the middle 20s or colder. A lake-enhanced band of snow moved through southeast Wisconsin, with a quick inch of snow falling in about a 30 minute period. A radar reflectivity snapshot at 10:32 a.m. CST is below for reference, along with some observations from Milwaukee International airport.

(1632 UTC
KMKX radar
12/08/2013)



Abbreviated METARs from Milwaukee 8:52 to 11:14 a.m. 12/8/2014
 KMKE 081452Z 9SM -SN M06/M09 P0000
 KMKE 081525Z 2 1/2SM -SN M05/M08 P0000
 KMKE 081537Z 1 1/4SM -SN M05/M08 P0001
 KMKE 081552Z 1SM -SN BR M05/M07 P0001
 KMKE 081601Z 3/4SM -SN BR M05/M07 P0000
 KMKE 081615Z 1/4SM SN FZFG M05/M07 P0001
 KMKE 081642Z 1/2SM SN FZFG M04/M06 P0005
 KMKE 081652Z 1/2SM -SN BR M04/M06 SNINCR 1/1 P0005
 KMKE 081714Z 1SM -SN BR M04/M06 P0001



(Courtesy WIDOT traffic camera)

See *PRESIDENT*, p. 3

Likelihood					
	Med			✓	
	Low				
	Very low				
		Very low	Low	Med	High
Impact					

Figure 1. Example of the risk matrix used in all severe weather alerts/warnings

- No severe weather
- Be aware
- Be prepared
- Take action

(Courtesy UKMET Office)

2013 Awards Presented at the 2014 Awards Luncheon



Special Lifetime Achievement Award

Charles A. Doswell III – Doswell Scientific Consulting

For his exceptional service and contributions to the operational forecasting and research communities through high-quality scientific research, educational workshops, and mentorship of colleagues and students.

(See [pages 4-5](#) for 2014 Awards)

PRESIDENT from p. 2

The impacts of this seemingly run-of-the-mill snow event are well documented below with images from the Wisconsin Department of Transportation web cameras and a three-minute video clip from a local Milwaukee network TV news station (WISN-12 TV). I recall that the national media picked up this event as well. It pales in comparison to the Atlanta SnowJam, which occurred about six weeks later and was discussed at length at the Annual Meeting in Salt Lake City. However, I felt that drivers in Wisconsin should have been more experienced and prepared for winter driving conditions. So it was surprising to see them driving so fast in these conditions, especially when they approached the growing pile of crashed cars.

<http://www.youtube.com/watch?v=PgEfzcze-g>

(Video courtesy of WISN-12 TV)

Forecasting impacts requires a new line of thinking for operational forecasters. As numerical models and access to multi-model ensembles improves, calibrated probabilistic forecasts of hourly snowfall rates can be provided. Combined with road temperatures and typical rush hour traffic times, it is not a stretch to provide reliable estimates of adverse impacts to traffic flow. The vision of a Weather Ready Nation is tied more to timing and intensity of snow than to the total depth of the storm. In the eight years that I have worked at the Milwaukee/Sullivan, Wisconsin, Office, I have certainly found that to be true.

In Memoriam:

Sol Hirsch Former Executive Director

Sol Hirsch began his weather career in the U.S. Army Air Corps in 1943 when he was selected to attend school for observers at Chanute Air Force Base. He served as an observer at a number of air bases until 1946 when he chose to leave the service and return to college under the GI bill. He returned to the City College of New York in 1946 and received a B.S. degree with a major in Meteorology in 1950. Mr. Hirsch began work for the U.S. Weather Bureau in that same year by accepting an appointment as a weather observer in Baltimore, Maryland. He instituted service at the new Friendship Airport and was soon promoted to the Observer–Briefers category and continued in that capacity until 1952 when he was promoted to the forecaster grade. As a forecaster he prepared forecasts for Baltimore City, Maryland, the Delaware zone forecasts, and for a period the two state forecasts. A number of radio broadcasts originated from the Weather office each day through a local radio station, and Mr. Hirsch delivered several thousand during the period from 1952 to 1962.

In 1962 he accepted a promotion to work in the newly formed Weather Bureau satellite program. This program grew in leaps and bounds and soon became an independent agency, and after a series of name changes became known as the National Environmental Satellite Service. The program was based in Suitland, Maryland and involved a daily round-trip commute in excess of 100 miles. In 1966 he enrolled in an evening master's program at Johns Hopkins University receiving a degree in management science in 1971. In 1978 there was a temporary assignment to the Joint Agricultural Weather Facility in Washington as a satellite specialist in a program sponsored by NOAA and USDA. In 1980 Mr. Hirsch retired after more than 30 years of service.

Upon retiring, Mr. Hirsch, in concert with three other retired meteorologists, organized a private consulting firm called Intercon Weather Consultants, which was located in the Suitland area. In 1981, Mr. Hirsch was asked to assume the job of Executive Director for the National Weather Association. In 1988, the members of the consulting company decided to retire again and consequently Mr. Hirsch formed a new company called Capitol Weather Consultants.

Sol Hirsch continued as Executive Director in the Temple Hills' office until the beginning of 1993 when he retired. He remained active as Chairman of the Education Committee for many years.

Mr. Hirsch was a charter member of the National Weather Association, and a member of the American Meteorological Association. He was an organizer and charter member of both the Association of American Weather Observers and the International Weather Watchers, two amateur weather organizations that unfortunately are no longer in existence. He was active on the boards of three volunteer organizations and had served as president of one.

Sol passed away on Oct. 8, 2014, in Baltimore. He is survived by his wife Shirley, six children, 13 grandchildren and four great-grandchildren.

Contributions in his memory may be sent to Beth Tfiloh Congregation, 3300 Old Court Road, Baltimore, MD 21208 or Sol Hirsch Fund of The National Weather Association, 350 David L. Boren Blvd, Suite 2750, Norman, OK 73072-7125.

2014 NWA ANNUAL AWARDS

The National Weather Association 2014 Annual Awards were presented by President Jeff Craven at the 2014 Annual Awards Luncheon on October 22 at the Sheraton in Salt Lake City, Utah.

The 2014 Annual Award Committee members were:

Chairperson Jeffery Evans, Steven Cooper, Joseph Dellicarpini, Chris Higgins, Eric Lenning, Todd Lericos, Jay Martinelli, Mike Paddock, Kris Sanders, Matt Stalley, Dan Valle and Ryan Vaughn.

Operational Achievement Individual Award

**Lans Rothfusz – National Severe Storms Laboratory,
Norman, Oklahoma**



For passion and dedication to the science of meteorology which have led to numerous innovations in the NWS throughout his career, and for maintaining a visionary influence on the future of operational meteorology.

Public Education Award

**Dr. Michael Brown –
Mississippi State
University**

For his commitment and dedication to increasing weather awareness to the faculty, staff, and students of Mississippi State University and the residents of the State of Mississippi.



Walter J. Bennett Public Service Award

**Sara Stone (pictured) –
CenterPoint Energy
and
Jackie Miller –
City of Houston**

For providing a shining example of collaboration between private industry and government agencies by organizing and running the annual Houston/Galveston Hurricane Workshop.



Local Chapter Award

**Middle Tennessee
NWA Chapter**

For having a huge impact around the area with community outreach and educational initiatives, including the annual Severe Weather Awareness Day.



Trevor Boucher (pictured above) accepted the award

Member of the Year Award

**Bruce Thomas – Chief
Meteorologist, Midland
Radio Corporation,
Kansas City, MO**

For his dedication over the past eight years, serving in many important roles on the NWA Council. As the NWA President from October 2012 to December 2013, turning his vision into reality by working with the Council to establish a permanent home for the NWA in Norman, Oklahoma



T. Theodore Fujita Research Achievement Award

**Matt Bunkers – National
Weather Service, Rapid
City, South Dakota**

For enhancing operational meteorology through his influential research on supercell motion, developing a comprehensive precipitable water climatology, and related techniques and training.





Mike Eckert (left) and Brandon Smith

Aviation Meteorology Award

**Mike Eckert – NWS, Aviation Weather Center/FAA Command Center
and**

**Brandon Smith – NWS, Aviation Weather Center/
FAA Command Center**

For the Exceptional decision support services provided to the FAA Air Traffic Control System Command Center ensuring a safe and efficient National Airspace System.

Operational Achievement Group Award

National Weather Service Forecast Office Springfield, Missouri

For exemplary service during a series of catastrophic flash floods across the Missouri Ozarks during the first two weeks of August 2013.

*Below front row (l to r): Patti Wentling, Dave Wilham, Megan Terry.
Back Row: Drew Albert, Quay Kendrick, Andy Boxell, Gene Hatch.*

Broadcaster of the Year Award



Mike Bettes – The Weather Channel

For dedication to educating viewers on the science and danger of tornadoes, and his honesty in admitting mistakes made and lessons learned on May 31, 2013.



The Larry R. Johnson Special Award

The Southern Region SWAN Team

For outstanding leadership and contribution to operational marine forecasting in deploying a high resolution marine model across all the NWS Southern Region Coastal offices.



Doug Gaer
Ft. Worth, Texas



Tony Freeman
Tallahassee, Florida



Alex Gibbs
Miami, Florida



Pablo Santos
Miami, Florida

The First Digital Seal Holders

This year the NWA has added a new certification that recognizes distinction among cyber-weathercasters (those whose work is seen only on the Internet). [See page 1 for details.](#) So far, three NWA members are now Digital Seal holders. We will highlight recent Seal of Approval members in the December Newsletter.



Bill Murray

Bill Murray is Digital Seal #1. He produces the Alabama Weather blog. Bill says he was factory designed to be a meteorologist. Born with an avid interest in all things meteorological, ironically, he spent the first twelve years of his life scared to death of the weather. That all changed on the night of April 3, 1974, when a total of 148 tornadoes tore across the American landscape. Alabama was one of the hardest hit states in that outbreak, with over 80 people killed. "The night seemed like the end of the world to me," said Murray. "The next morning, I set out collecting clippings of the event, and have been totally hooked on weather ever since. After graduating from high school in 1980, Bill decided against a weather career and moved up the ladder with a Birmingham based hotel management company, going from Front Desk Clerk, to President of the company within 13 years. But weather was still a big part of his life. In 1991, Murray was selected to be the weekend meteorologist at WBMG-TV42. He was able to do this until 1996, when he had to quit because of the demands of

his hotel job. In 1998, Murray became involved with a new venture, called The Weather Company, along with James Spann and four others. He has been producing weather forecasts for The Weather Company since 2001. The Weather Company changed its name to The Weather Factory in 2012. He is a weekly contributor on the Weather Brains podcast. Bill was named as the NWA Digital Seal Manager in October of this year.



Michael Mogil

Digital Seal #2 is Michael Mogil, who is a certified consulting meteorologist with B.S. and M.S. degrees in meteorology from Florida State University. Mike has earned the AMS's Certified Consulting Meteorologist and Certified Broadcast Meteorologist ratings. He now adds the NWA Digital Seal to his repertoire. He has practiced meteorology for more than 40 years, working closely with educators across the country since 1979. Mike also provides expert weather services to attorneys and insurance companies nationwide, provides programs for teachers and students in weather, writes books about weather and articles about weather and mathematics, writes online features about weather and math and helps operate the Mathworks Tutoring Center. Mike has authored/co-authored several books about weather, weather experiments and a comprehensive teacher's guide for using the newspaper to study weather in the classroom. He has also developed several weather posters and cloud charts. He has written scores of articles for National science journals, and numerous other magazines and

newspapers. Most recently, he spearheaded the development of a series called Weather and Climate of the States for Weatherwise magazine. Mike will serve as an NWA Digital Seal evaluator.

Jason Samenow

Finally, Digital Seal #3 is Jason Samenow of the Washington Post's Capital Weather Gang. A native Washingtonian, Jason has been a weather enthusiast since age 10 back in 1987 — the year of the double-whammy snow storms that shut schools down seven straight days in the D.C. area. Before graduating from high school, he interned for NBC4 chief meteorologist Bob Ryan. At the University of Virginia, he earned a degree in environmental science, focusing in atmospheric science. He went on to earn an M.S. in atmospheric science at the University of Wisconsin-Madison in 2000. Jason is currently the Washington Post's weather editor. From 2000 to September 2010, he worked as a climate change analyst for the federal government, monitoring, analyzing and communicating the science of climate change. He founded CapitalWeather.com in early 2004, the first professional weather blog on the Internet which was absorbed by the Post in 2008. Jason lives with his wife, Deborah, and son, Evan, in Washington, D.C.

The NWA happily welcomes these first Digital Seal holders into the company of individuals who have crafted a professional weather presentation through diligence and hard work. Today, they join a select group of men and women who illustrate the benchmark of excellence by their example.



Newsletter
Submissions



We welcome Newsletter article submissions from members. Send articles to nwanewsletter@nwas.org by the 25th of the month for publication in the following month's edition at the earliest. Information about the Newsletter and a link to author guidelines can be found at www.nwas.org/newsletters/.

NEW JOM PAPER: Verification of NWS Spot Forecasts

One article has been published the NWA's Journal of Operational Meteorology (JOM) since the July Newsletter update. There are four categories of papers that can be published in JOM. To see their names and descriptions, go to www.nwas.org/jom/call_for_papers.php. If you are interested in submitting a paper to JOM, go to www.nwas.org/jom/index.php for author information.

JOM 20 (Article): Verification of National Weather Service Spot Forecasts Using Surface Observations, by M. R. Lammers and J. D. Horel.

Thank you to the JOM authors, reviewers and editors for continuing to make JOM a success. You can read the papers by logging on to the NWA Member Portal at member.nwas.org/ and clicking on the JOM link under Additional Member Resources on the right.

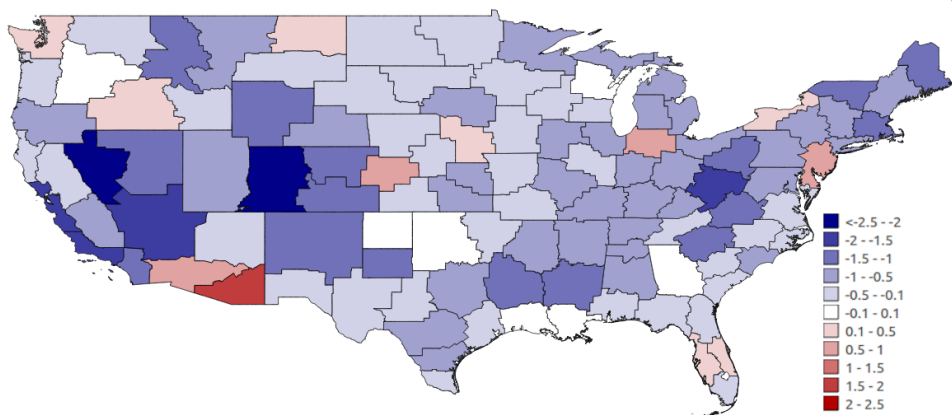


Figure 15a in JOM 20 showing the mean error in the temperature forecast (C) for prescribed burn forecasts as a function of NWS County Warning Area.

2014-15 NWA sponsored Annual Meetings, Conferences and Special Events (*click titles to view websites*)

March 6-8: 40th Northeastern Storm Conference

It will be held in Saratoga Springs, New York, and is sponsored by the Lyndon State Chapter of the AMS & NWA. Abstracts will be accepted online December 1, 2014 through February 6, 2015. Abstract acceptance will be on a space-available basis, and early abstract submission is highly recommended.

March 26-28: 19th Annual Severe Storms and Doppler Radar Conference

Sponsored by the Central Iowa NWA Chapter, it will be held at the Courtyard by Marriott in Ankeny, Iowa.

March 28-29: 13th Annual Southeast Severe Storms Symposium

The East Mississippi Chapter of the NWA/AMS conducts this symposium. Watch their website for an announcement about keynote speakers.

October 17-22: 40th NWA Annual Meeting

The Renaissance Oklahoma City Convention Center Hotel is the host site for the meeting. Meetings will be held next door in the Cox Convention Center. It is our 40th anniversary, so plan to attend this informative meeting and celebration.

Other Meetings, Conferences and Special Events in 2015

January 4-8: 95th AMS Annual Meeting

"Fulfilling the Vision of Weather, Water, and Climate Information for Every Need, Time and Place" is the theme. It will be in Phoenix, Arizona.

February 13-15: 17th Annual National Storm Chaser Convention

This convention will be held in Denver, Colorado. Speakers include Tim Marshall and Dr. Greg Forbes; there will be a Forecasting Class held in conjunction with the meeting.

February 23-25: National Tornado Summit

Held in downtown Oklahoma City, the National Tornado Summit improves disaster mitigation, preparedness, response and recovery in order to save lives and property in the United States. Attendees will have the opportunity to attend five general sessions and seven breakout sessions in five different tracks: Adjusters, Emergency Management, Producers, Special Interest and National Severe Weather Workshop.

February 27-28: Northwest Weather Workshop

Sponsored by NOAA's NWS, the University of Washington and the Puget Sound Chapter of the AMS, the theme is: "Advances in High-Resolution Prediction over the Pacific Northwest".

Fall Quarterly Announcement from COMET

Wendy Schreiber-Abshire

COMET Senior Project Manager/Meteorologist

Read on for highlights of our most recent MetEd publications. We've been busy hosting courses, translating previously published materials, and starting new initiatives. Our new English language distance learning publications this quarter include new material on the GOES-R Geostationary Lightning Mapper (GLM), atmospheric dynamics, precision and accuracy, and water purification and desalination. Please follow the links of most interest to you for more information about each release.

New English Modules:

GOES-R GLM: Introduction to the Geostationary Lightning Mapper, 1 hour

https://www.meted.ucar.edu/training_module.php?id=1080

This extension of the COMET module "GOES-R: Benefits of Next Generation Environmental Monitoring" focuses on the GLM instrument, the satellite's lightning mapper.

Quasi Geostrophic Vorticity Equation (interactive widget)

https://www.meted.ucar.edu/training_module.php?id=1142

This learning object/widget is designed for upper-level undergraduates or forecaster interns who want to apply their knowledge of the quasi-geostrophic vorticity equation to forecast situations.

Precision and Accuracy in Geodetic Surveying, 15 minutes

https://www.meted.ucar.edu/training_module.php?id=1146

This brief video focuses on the importance of both precision and accuracy in geodetic surveying and the difference between them.

Interviews with Frank Leitz, Senior Chemical Engineer, Bureau of Reclamation, 30 minutes

https://www.meted.ucar.edu/training_module.php?id=1098

In these three short video interviews, Frank Leitz shares stories and lessons learned from his work on water purification and desalination projects.

New Spanish Modules:

Tormentas locales severas tropicales, 1 hour

https://www.meted.ucar.edu/training_module_es.php?id=1130

La OMJ, las ondas ecuatoriales y la ciclogénesis tropical, 1 hour

https://www.meted.ucar.edu/training_module_es.php?id=1128

Ondas tropicales del este, 1.5-2 hours

https://www.meted.ucar.edu/training_module_es.php?id=1120

Interacciones entre masas de aire tropicales y extratropicales en Sudamérica, 1 hour

https://www.meted.ucar.edu/training_module_es.php?id=1127

Temas de meteorología dinámica: El viento térmico, 1.5-2 hours

https://www.meted.ucar.edu/training_module_es.php?id=1072

New French Modules:

Inférer trois dimensions à partir de l'imagerie de vapeur d'eau, 1 hour

https://www.meted.ucar.edu/training_module_es.php?id=1135

Applications des données d'ensemble l'hiver, 1.5-2 hours

https://www.meted.ucar.edu/training_module_es.php?id=1126

Currently, these materials are freely available to everyone, courtesy of our primary sponsors. They are NOAA's NWS, NESDIS and National Ocean Service programs, EUMETSAT, the Naval Meteorology and Oceanography Command, the Meteorological Service of Canada, Bureau of Meteorology, the U.S. Army Corps of Engineers, and the Department of the Interior Bureau of Reclamation.

Welcome to the NWA!

Here are new NWA members as of October:

Regular/Retired/Military

Samuel Agyemang
Anthony Bailey
John Blood
Skip Breeden
Steve Brueck
Corey Christiansen
Dave Cochran
Margaret Curtis
Rob D'Arienzo
Matthew Euler
Keisha Fitzgerald
Mike Gismondi
Freddrick Gossage
Douglas Hilderbrand
Patrick King
Collin Myers
James Reynolds
Danny Satterfield
Mark Seguljic
Lance Steele
Paul Suffern
Edward Szoke
Evan Webb

Student members

Mary Brown
James Brownlee
Tomer Burg
Alexander Calamia
Christopher Castellano
Rachel Dougherty
Lauriana Gaudet
Kurt Hansen
Darrel Kingfield
Andrea Paparelli
Lauren Rautenkranz
Matthew Schlagel
Scott Sincoff
Brian Squitieri
Kate-Lynn Walsh
Jillian Young

See page 9 for
September's new members!

COMET NEWS



39th NWA ANNUAL MEETING SUCCESSFULLY CLOSES

A big thank you to everyone who came to the [NWA's 39th Annual Meeting](#) in Salt Lake City, which ended October 23. We had 574 attendees!

If you missed any of the #NWA14 meeting, you can catch up with our summaries on [Storify](#).

A special thank you to all our meeting sponsors, donors and exhibitors. We appreciate all of the members who volunteered their time and effort to make the meeting a great success!

Welcome to the NWA!

Regular/Military/ Retired Members

Gloria Bunting
Bryan Busby
Alan Conklin
Erik Crosman
Brian Hartman
Dean Hazen
Cameron Hopman
Karla Huelga
Chris Karstens
Alek Krautmann
Jason Laird
Robert Lehmann
Andrew Logsdon
Timothy Lynch
Marne Meynig
Aimee Mottl
Cody Oppermann

Nicole Peterson
Erik Pindrock
Bradley Scalio
Jason Scalzitti
Jeffrey Williams

Student Members

Adam Abernathy
Brian Blaylock
Douglas Catharine
Michael Chereskin
Roland Christensen
Lacey Clifton
Andrew Courtney
Jacob DeFlitch
Chris Easlick
Bri Eggers
Nicholas Elmer
Ben Fasoli

Here are new NWA members as of September

(see page 8 for October's new members):

Katie Flynn
Jesse Guinn
Aaron Haegele
Kimberly Hartmus
Andrew Havercroft
Alex Iannone
Alexander Jacques
Dylan Jeffrey
Kellee Judy
Alexandra Kabeiseman
Matthew Kovall
Nate Larsen
Luke Leclair-Marzolf
Gabriel Lojero
Katherine Long
Brandon Lovato
Derek Mallia
Richard McAlister
Cameron Negrete

Kelly Neugent
Ryan Phillips
Cody Poché
Karlie Rees
Daniel Schaffer
Adam Solarczyk
Jennifer Tate
Kai Tawa
Alyssa Taylor

Corporate members

(click for their URL)

Center for Climate
Change Communication

WeatherBELL
Analytics LLC

IMPORTANT DATES

December 21, 2014
Winter begins at 6:30 pm EST

December 31, 2014
**Last day to vote in the NWA 2015
election for officers and councilors**

February 5, 2014
National Weatherperson's Day

NWA Newsletter (ISSN 0271-1044)

Technical Editor: Winnie Crawford

Editor and Publisher: Janice Bunting, NWA Executive Director

Communications Coordinator: Hulda Johannsdottir, NWA

Design/Layout: Mollie Doll (treefrogresources.com)

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Submit newsletter items to nwanewsletter@nwas.org using the Instruction for Authors at http://www.nwas.org/newsletters/newsletter_instructions.php.

Members receive the Newsletter on-line and access to an on-line portal which includes the Journal of Operational Meteorology as part of their regular, student or corporate membership privileges.

Address, phone number, email and affiliation changes can now be made online: member.nwas.org.