

# 2010 PILOT SEMINARS

## Weather Seminars

Presented by meteorologists from the National Weather Service Forecast offices in Seattle and Spokane, Portland and Medford and the NWS Unit co-located with Seattle ARTCC. Each meteorologist has been routinely involved in forecasting the weather over the Pacific NW for many years, including forecasts for the general public, Aviation, Marine, Fire Weather users, and for Hydrology. These seminars were written especially for pilots and are intended to increase pilot knowledge of meteorology in general and aviation weather in particular.

Saturday, February 20 | 10:30 am  
**Weather Patterns of the Pacific Northwest -West side**  
Founders | Room C  
Clinton Rockey

Weather patterns of the Pacific Northwest maritime area that affect aviation. Weather phenomena include unstable shower patterns, marine stratus, fog, high winds, thunderstorms and the Puget Sound Convergence Zone. Emphasis will be on the effect of these phenomena on pilots. In addition, we will provide some satellite interpretation tools to better anticipate such events.

### Clinton Rockey

A meteorologist from the National Weather Service forecast office in Portland, Clinton grew up and lived in Kansas and graduated from the University of Kansas. Since 1995, he has been stationed in Portland. Clinton has been a pilot since 1997.

Saturday, February 20 | 1:00 pm  
**Interpreting Weather Charts on the Internet**  
Founders | Room C  
Michael Petrucelli

How to interpret weather forecast charts found on the Internet. A look at common aviation weather forecast charts and a deeper look at the computer model weather charts used by meteorologists. Includes a look at satellite imagery and how to find fronts and low pressure systems.

### Mike Petrucelli

Mike Petrucelli was born and raised in N.Y. and graduated at State University New York in 1996. He has been forecasting weather in the Pacific NW for many years, with NW WeatherNet in Seattle for 6 years, then the NNWS in Medford for four years. He has filled the position of Aviation Focal Point since April 2007.

Saturday, February 20 | 2:15 pm  
**Center Weather Service Units (CWSU) and Weather Products**  
Founders | Room C  
Shad Keene

Discussion of the NWS's Center Weather Service Units structure and aviation support. NWS web-based aviation products will be covered. Dialogue regarding NWS is encouraged –what you like, what you don't, and what you'd like to see in the future.

### Shad Keene

Shad graduated from Penn State and joined the Air Force as a weather officer. He supported flying operations in the Southeast US before moving to the Pacific NW. He spent time forecasting in Western and Eastern Washington, along with Thailand and Iraq. Shad then joined the NWS and spent three years at a CWSU in Fremont, CA supporting ATC and regional flying interests. He recently transitioned to the Medford, OR forecast office.

## Weather Keynote: Cliff Mass

Saturday, February 20 | 3:30 pm  
The Future of Northwest Weather Prediction  
Cliff Mass | University of Washington  
Keynote Area

An overview of technology of weather prediction and how it has changed during the past several decades, and what can be expected during the next decade.

Cliff Mass is a Professor of Atmospheric Sciences at the University of Washington and the principal investigator for the Mesoscale Analysis and Forecasting Group.

His current research includes the use of high resolution numerical modeling for understanding and predicting West Coast meteorological phenomena, orographic precipitation, regional data assimilation, mesoscale ensemble prediction, and regional climate modeling. He has published over fifty papers on the weather of the western U.S.

Dr. Mass is chief scientist of the Northwest modeling consortium, which provides real-time high resolution weather predictions for groups throughout the Northwest. He gives a weekly weather forecast on Seattle's public radio station, is a regular on Public TV, writes a popular weather blog, and is author of the, *The Weather of the Pacific Northwest*.

*"Great progress has been made in understanding the weather of the Pacific Northwest. Cliff Mass has either participated in or directed much of that work."*

– Jeff Renner, Chief Meteorologist,  
KING Television, Seattle



Cliff Mass

## Our Airports Keep us in the Air.

Saturday, February 20 | 3:30 pm  
Airport Workshop  
WSDOT, FAA Airports, AOPA  
North Foyer

*This seminar series brings together state and federal aviation leaders with airport personnel and general aviation airport users. Countless pressures threaten our airports, we need to be proactive to stay ahead of the game. Make plans to attend and find out how we can all work together to be informed and protect our rights to our passion and our livelihoods.*

9:15 am  
"Airport Investments, How Are They Determined?" FAA and WSDOT

10:30 am  
State Airport Grants Aren't Free! Newly Proposed State Grant Obligations  
WSDOT

11:45 am - 12:45 pm  
Washington Pilots Association Annual meeting & Luncheon

## SATURDAY AIRPORT WORKSHOP

2:15 pm  
Protecting Your Airport – Engaging in Local Politics  
AOPA

3:30 pm  
Protect Your Airport from Land Use Encroachment – Featuring New State Guidebook and Tools  
WSDOT

Sunday, February 21  
11:30 am

**Satellite and Radar  
Interpretation of Inland  
NW Weather Patterns**  
Founders | Room C  
Colby Neuman

Meteorologists use a variety of tools to track and forecast the weather. Satellite and radar can be especially useful tools, if you know how to use them. Learn how to use these valuable tools to analyze clouds, fog, thunderstorms, precipitation and other weather phenomena.

**Colby Neuman**

Colby Neuman is a National Weather Service meteorologist in the Spokane, Washington office. He has been there since January 2009. Colby graduated with a Masters degree in Meteorology from the University of Utah in 2008.

## SHOWPLEX Layout

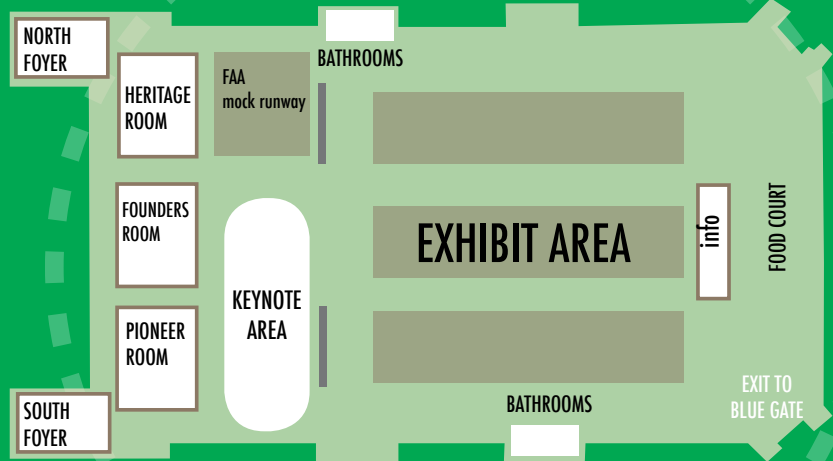
Sunday  
February 21 | 2:30 pm

**Wintertime Icing Conditions in the Pacific Northwest**  
Founders | Room C | John Werth

Understand the effects of icing on aircraft performance, what causes icing, how icing forms and where it occurs, the different types of icing, and the type of icing based on cloud type.

**John Werth**

John is the Meteorologist in Charge of the NWS's Center Weather Service Unit located at the FAA's ARTCC in Auburn. Werth's started in 1977 as a Research Meteorologist with the University of Washington's Cloud Physics Research Group. John began with the NWS in 1980 at the Portland and Seattle Forecast Offices. Until 2002 John worked as a NWS Fire Weather Meteorologist providing on site weather support to numerous Incident Command Teams across the county. In 2002, John transferred to the Center Weather Service Unit. in Auburn, Wa.



## Emergency Underwater Egress Course

February 20 & 21  
Emergency Response International (ERI)

### Survival Workshop: Egress/ Ditching Basics

Emergency Response International (ERI)  
South Foyer (A) **—OPEN admission, no registration needed!**  
Saturday 11:45 a.m. | Sunday 11:30 a.m.

The academic instruction focuses on orientation to the ditching environment, the importance of reference points, likely occurrences after impact, strike envelope and restraint systems, deceleration forces and cabin preparation, transition from the air environment to the water environment inside the cabin, and obstacles to egress.

### Shallow Water Egress Trainer (SWET)

Holiday Inn Express indoor pool, Puyallup WA **— Must pre-register to attend!**  
Saturday 2:00 - 5:00 p.m. | Sunday 1:30 - 4:30 p.m.

The pool exercise familiarizes participants with the fuselage of an inverted ditched aircraft. After instructions on egress procedures and guidelines for avoiding panic in disorienting situations, instructors will demonstrate how the process works in the ditching simulator. Each student will then enter the simulator (SWET) floating in approximately five feet of water. The simulator will invert and students will perform appropriate actions to safely exit the "aircraft" (i.e. Breaking the communications cord, maintaining a reference point, remaining in the seat until all motion stops, disconnecting shoulder and seat harnesses and exiting the device). After successfully demonstrating the ability to exit the SWET, students will ride the device again for a vision impaired simulation (with blackout goggles). Students will also practice proper use and operation of flotation equipment. The experience emphasizes the essential nature of reference points for orientation, clear thinking, and familiarization with procedures, equipment and most of all surroundings. Where necessary, students will be given additional time and experience in the simulator to capture essential skills.

*The egress introductory seminars will be held at the NWAC&TS and do not require registration. Pool sessions require pre-registration and pool space is limited to 40 active participants. Egress participants are invited to FREE Crewmember Emergency Training FRIDAY. SWET Registration Fee: With 3 hour pool session \$99 — call 866-922-7469 for info.*



# 2010 NW Aviation Conference Schedule - QUICK VIEW - Please see online for full description

## SATURDAY, FEBRUARY 20

7:15 A.M. Registration open for IA Seminars - Maintenance seminars open to everyone at no charge, even un-registered mechanics and pilots, Meals and certification **ONLY** provided to registered attendees *Details page 20*

8:00 A.M.

Room B | Pioneer **Propeller Resources for the IA** Dwight Corella | A.C. Propeller Service *IA Credit | Open to all* *Details page 20*

9:00 A.M.

Room B | Pioneer  
**"Wear It In - Don't Wear It Out! Engine Break-in and Run-in"**  
Tim Morland | ECI  
*IA Credit | Open to all*

9:15 A.M.

Room A   South Foyer <b>What Makes You a Survivor?</b> ERI <i>Details page 38</i>	Room C   Founders <b>Approach &amp; Landing Clinic</b> Minard Thompson, Northwest Mountain FAAS Team <i>details page 39</i>	Room D   Heritage <b>Glass Panel for Everyone</b> Robert Hamilton, Dynon Avionics <i>Details page 36</i>	Room E   North Foyer <b>Airport Investments, How Are They Determined?</b> FAA and WSDOT <i>Details page 8</i>
--	---	---	--

10:15 A.M.

Room B | Pioneer  
**Understanding 406 MHz ELTs & PLBs**  
Ryan Deck, Aircraft Spruce  
*IA Credit | Open to all*

10:30 A.M.

Room A   South Foyer <b>Portable Glass Panels: Stand-alone GPS or Tablet PC?</b> Steve Podradchik Seattle Avionics	Room C   Founders <b>Weather Patterns of the Pacific Northwest - West Region</b> Clinton Rockey   NWS <i>Details page 8</i>	Room D   Heritage <b>The Fine Art of Being Found &amp; Found Alive</b> Rob Abbott   Spidertracks <i>Details page 47</i>	Room E   North Foyer <b>State Airport Grants Aren't Free! Newly Proposed State Grant Obligations WSDOT</b> <i>Details page 8</i>	Keynote Area <b>"Airstrip Observation"</b> Lori MacNichol   McCall Mountain/Canyon Flying <i>Details page 36</i>
---	--	--	--	---

11:15 A.M.

Room B | Pioneer  
**Maintenance and repair of Wipline Floats**  
Jason Erickson | Wipaire  
*IA Credit | Open to all*

11:45 A.M.

Room A   South Foyer <b>Survival Workshop: Egress/ Ditching Basics</b> <i>Details page 9</i>	Room C   Founders <b>Your Medical Certificate &amp; Your Health</b> Dr. Chris Taylor   FAA	Room D   Heritage <b>Flying the Vice President and Other Interesting Stories</b> Dan Hargrove   Rocky Mountain College <i>Details page 36</i>	Room E   North Foyer <b>Washington Pilots Association Annual Meeting and Luncheon</b>	Keynote Area <b>10 Things Other Pilots Do Wrong</b> JJ Greenway   AOPA Air Safety Foundation <i>Details page 36</i>
--	--	--	--	--

12:15 P.M. - 1:30 P.M.

Room B | Pioneer  
**IA LUNCH HOUR, FREE TIME.... PLEASE VISIT THE EXHIBITS**  
  
**LUNCH PROVIDED**

12:45 P.M.

Keynote Area <b>AWARDS CEREMONY</b> - WSDOT Aviation Division   John Sibold; FAA Master Pilot Awards and presentation from FAA Administrator.
--

1:30 P.M.

Room B | Pioneer  
**HUMAN FACTORS & FAILURE TO FOLLOW PROCEDURES**  
Dr. Jean Francois Mpouli, NW Mountain Region FAAS Team

1:00 P.M.

Room C   Founders <b>Interpreting Weather Charts on the Internet</b> Michael Petrucelli NWS Medford, OR <i>Details page 8</i>	Heritage Room <b>Hearts of Courage: Surviving the Gilliam Crash</b> John Tippets <i>Details page 16</i>	Keynote Area <b>THE STATE OF GENERAL AVIATION: CHALLENGES AND OPPORTUNITIES</b> Karen Gebhart   President AOPA Foundation User fees. Aviation security. Airport preservation. The perception of GA. Find out how these and other issues will affect your flying, what AOPA is doing to protect your interests, and learn what you can do to help. <i>Details page 12</i>
---	--	--

2:30 P.M.

Room B | Pioneer  
**Dynamic Propeller Balance and Engine Vibration Diagnostics**  
Jim Ramsey | Diagnostic Solutions International, LLC

2:15 P.M.

Room A   South <b>Angel Flight General Membership Meeting</b>	Room C   Founders <b>Center Weather Service Units (CWSU) and Discussion of Aviation Weather Products</b> Shad Keene   NWS Medford, OR	Room D   Heritage <b>Synthetic Vision Technology</b> Wayne McGhee, Garmin <i>Details page 36</i>	Room E   North <b>Protecting Your Airport - Engaging in Local Politics</b> Greg Pecoraro   AOPA
--	---	---	---

3:30 P.M.

Room B | Pioneer  
**From a Galaxy FAR, FAR away... Review of Maintenance Regulations for Mechanics**  
Kevin Alexander | University of Alaska Fairbanks Aviation Maintenance  
*IA Credit | Open to all*

3:30 P.M.

Room A   South Foyer <b>Back County Airstrip Destinations in the NW and the Nation</b> Tim Clifford Recreational Aviation Foundation <i>Details page 42</i>	Room C   Founders <b>Pilot Preflights-You Bet Your Life! A Mechanics perspective on a pilots preflight.</b> Johnny Rush   FAAS Team	Room D   Heritage <b>The "Good" Pilot</b> <i>The finer points of flight planning and preparation fade - but their importance does not diminish.</i> Johnny Summers <i>Details page 13</i>	Room E   North Foyer <b>"Protect Your Airport from Land Use Encroachment"</b> Featuring New State Guidebook and Tools John Sibold   WSDOT <i>Details page 12</i>	Keynote Area <b>The Future of Northwest Weather Prediction</b> Cliff Mass   Professor, University of Washington <i>Details page 8</i>
---	---	---	--	--

4:30 P.M.

Room B | Pioneer  
**Aircraft Deicer Installation and Maintenance Pneumatic Deice Boot Installation**  
Dave Vega | B/E Aerospace  
*IA Credit | Open to all*

4:30 P.M.

Room A   South Foyer <b>Survival Myths and Misperceptions</b> Emergency Response International (ERI) <i>Details page 38</i>	Room C   Founders <b>Pilot Decision Making</b> Minard Thompson   FAAS Team	Room D   Heritage <b>FAA INVESTIGATION AND ENFORCEMENT ACTIONS -- Picking your way through the FAA enforcement swamp.</b> Edward Adams   C. Edward Adams & Associates <i>Details page 23</i>	Keynote Area <b>Stall/Spin Awareness</b> Bruce Williams   Bruce Air <i>Details page 36</i>
--	--	---	---

5:30 P.M. Please come back at 10:00 am on Sunday!

**Remember, your ticket is good for both days!**

**SUNDAY, FEBRUARY 21**

10:00 A.M.

**Exhibits Open**

10:15 A.M. - 1:15 P.M.

Room B | Pioneer

**FAA Team CFI Workshop, Module 6**  
Minard Thompson, Northwest Mountain FAA Team

This CFI workshop is the 6th of 8 quarterly workshops sponsored by the FAA Safety Team. The goal of this workshop is to reduce the risks of accidents due to improper takeoffs, landings, and loss of aircraft control during low altitude maneuvering. Factors affecting operational limits and recognizing how these factors affect aircraft capability will be discussed.

Core Topic #9  
**Takeoff/Landings/Low Altitude Maneuvering**

Core Topic #10  
**Aircraft Operational Limitations**

Commercial pilots working on their CFI are also invited to attend the workshops.

10:15 A.M.

Room A | South

**Survival Workshop: What Makes You a Survivor?**  
Emergency Response International (ERI)  
See page 38

Room C | Founders

**ATC Communications**  
Brian Krizek, Karen Mitchell, and Keith Priebe  
SEAARTCC

Room D | Heritage

**The Modern Day GPS Product Review**  
Ryan Deck, Avionics Sales Manager | Aircraft Spruce  
Review current aviation portable GPS products that are on the market by comparing unit features that will best fit your flying needs. Products discussed are Anywhere Map, Avmap, Garmin and Honeywell. Q&A.

Room E | North Foyer

**Flying the Idaho/Utah Backcountry "Aim point-Airspeed" Pavement, Devils, & Dirt**  
Lori MacNichol | McCall Mountain/Canyon Flying Seminars  
*Details page 14*

**Hearts of Courage: Surviving the Gilliam Crash**  
John Tippets  
Colleyville, TX  
*Details page 16*

11:30 A.M.

Room A | South

**Egress/ Ditching Basics**  
Emergency Response International (ERI)  
Orientation to the ditching environment, the importance of reference points, likely occurrences after impact, strike envelope and restraint systems, deceleration forces and cabin preparation, transition from the air environment to the water environment inside the cabin, and obstacles to egress.  
*See page 9*

Room C | Founders

**Satellite and Radar Interpretation of Inland Northwest Weather Patterns**  
Colby Neuman | NWS Spokane WA  
Meteorologists use a variety of tools to track and forecast the weather. Satellite and radar can be especially useful tools.  
*Details page 8*

Room D | Heritage

**Flying the Pattern**  
Johnny Summers | Bethany Consulting, FAA Designated Pilot Examiner, Seattle FSDO  
Airports without ATC towers are not uncontrolled—They're self-regulated. Pilots can comply with FAA guidelines, optimize training and enjoyment, and be neighborly at the same time.

Room E | North Foyer

**RISK MANAGEMENT AND THE FAA -- Danc-ing with the Bear With-out Becoming Lunch**  
Edward Adams | C. Edward Adams & Associates  
Designed to fit the needs of aviation operators and FBOs that would benefit from a keener understanding of enforcement and the risks that may effect your license to operate.  
*Details page 23*

Keynote Area

**What Went Wrong**  
JJ Greenway | AOPA Air Safety Foundation  
Sometimes the cause of an aircraft accident is obvious. Other times, it takes everything from CSI-style forensics to old-fashioned sleuthing to figure out where things went awry. The ASF latest seminar looks at general aviation accidents through the eyes of the investigator--starting at the scene and working backward to reconnect the shattered links of the accident chain.  
*Bio page 12*

1:00 P.M.

Room C | Founders

**Safety is No Accident**  
Charlie Riordan, Jennifer Lee  
FAA Runway Safety  
Have you ever made a mistake on taking the wrong taxiway and had Ground Control ask you where do you think you are going? Ever been a passenger on an airline and the plane makes a 180 degree turn and you wonder what's going on? No matter what your experience level is, we can all use a refresher on how to avoid the common pitfalls of operating an aircraft on the ground.

Room D | Heritage

**Union Discussion**  
Monika Warner  
Professional Aviation Safety Specialists  
*Details page 41*

Room E | North Foyer

**The Fine Art of Being Found & Found Alive**  
Rob Abbott | Spidertracks  
Some of the latest technologies now available to ensure that you are found as soon as possible and not months later by a hiker or snow mobile rider  
*Details page 47*

Keynote Area

**GPS and WAAS for Pacific Northwest Pilots**  
Bruce Williams | BruceAir  
Focus on IFR use of GPS, especially WAAS-capable units, for pilots in the PNW. It covers both en route operations and approaches, including LPV, LNAV/VNAV, and LNAV+V procedures.  
*Bio page 15*

2:30 P.M.

Room A | South

**SURVIVAL SKILLS: Shelter, Fire, Signaling, Water**  
This session illustrates essential concepts and skills for a survival incident. The purpose of the skills discussed in this session centers on preparedness, problem solving capability and protection of the body's temperature of 98.6 degrees F. Topics covered are: principles of shelter construction - both with the aircraft and without; tips, tricks, knots and strategies for personal protection; firecraft - alternatives to matches; improvised stoves, heaters, tinders, fuels, etc; signaling - basic principles and practical advice on pyrotechnics and ground to air signals; and water procurement.

Room C | Founders

**Winter-time Icing Conditions in the Pacific Northwest**  
John Werth | National Weather Service  
**All about aircraft icing.** Understanding the effects of icing on aircraft performance, what causes icing, how icing forms and where it occurs, the different types of icing, and the potential type of icing based on cloud type.  
*Details page 8*

Room D | Heritage

**VOYAGER FLIGHT SOFTWARE: WHY AVIATION CONSUMER CALLS IT BEST INTEGRATED & MOST POWERFUL**  
John Rutter | Seattle Avionics  
*Will discuss and demonstrate the latest new version, focusing on SmartPlan's auto-router and GlassView Moving Map's 3D Highway in the Sky features.*

4:00 P.M. Event ends for Sunday, please come back next year!

**Welcome to the 2010 Northwest Aviation Conference & Trade Show**

Presentations are one hour unless otherwise noted.

Hours:  
Saturday 9:00 - 5:30 pm  
Sunday 10:00 am - 4:00 pm  
full schedule online

Mechanic seminar  
 Safety Seminars  
 Weather Workshop