COURTESY MICHAEL WATKINS

OCTOBER-NOVEMBER 2023

WASHINGTON PILOTS ASSOCIATION

WINGS

Serving Washington Pilots Since 1960 | Washington Pilots Association

100LL... FACTS VS. FICTION

BY JOHN DOBSON

"There is consensus among the . . . scientific community" that . . . (all lead) levels . . . are hazardous". The environmental movement (anti-airport groups) would have you believe that our use of 100LL is responsible for all neurological problems in children. The following excerpt and testimony are from their legislative efforts last Spring.

"(ESHB 1554 – Engrossed Substitute House Bill – WA. 2023 Leg Session) Recent studies have found elevated levels of lead in the blood of residents, and particularly worryingly in the blood of children residing in areas near airport communities where leaded gasoline is used, for whom lead is especially harmful to their development. There is consensus among the medical and scientific communities that the levels detected in children living around airports similar to those in Washington are hazardous. The national academies of sciences, engineering, and medicine in 2015 concluded that lead "is a well-known air pollutant that can lead to a variety of adverse health impacts, including neurological effects in children that lead to behavioral problems, learning deficits, and lowered IQ".

"(According to a study commissioned by the County of Santa Clara, CA.), children living near Reid-Hillview Airport in East San Jose are experiencing blood lead levels similar to those of children in Flint, Michigan, during the peak of its water crisis in the previous decade12. The study found that children living downwind from the airport had higher blood lead levels than those living upwind, with increases of .4 micrograms per deciliter. In comparison, lead levels during the Flint water crisis were between .35 to .45 micrograms per deciliter (µg/dL) over the baseline".

"Over the baseline"? The total US average **(baseline) is 0.83 µg/dL.** in 2011 – 2016.

100LL
continued on page 4

INVIGORATING DAY

COURTESY HOLLY FERRELL

Postcard of a photo I'd taken of the CJ at Superstition Mountain, AZ.

BY KARYN KING

What an invigorating day with Girls in Aviation Day at Harvey Field!

We were again (my 5th year) invited to participate to encourage girls to fully realize their potential in aviation. These girls came from all over to hear speakers and experience the support of the aviation community.

Joe Griffith flew his Nanchang CJ and performed a wheels up low pass then parked it for the girls to see and ask questions about being a seasoned pilot. I gave out postcards with a photo of the CJ and my 3D formation flight cards and of course the airplane zipper pulls were a great hit!

Many of the girls are already in pilot training or ready to start. Remarkable group of girls and those

INVIGORATING
continued on page 4

PORT TOWNSEND AERO MUSEUM
Wednesday-Sunday, 9am to 4pm
ptaeromuseum.com

SPRUCE GOOSE CAFE
Wednesday-Sunday 8am to 4pm
sprucegoosecafe.com

JEFFERSON COUNTY AIRPORT 0S9
airnav.com/airport/0S9
Always open and self-service fuel

WHAT'S NEW?

100LL...Fact vs. Fiction.....1, 7
Invigorating Day.....1, 4
President's Message.....2
Sharing the Joy of Flight.....2
State Rep. Tom Dent.....3
Treasurers Report.....3
Festival of Flight.....5
Oak Harbor (KOKH) Airport Gets A Facelift and New Name.....6
WPA Member Al Banholzer Flies West.....7
WPA Membership Benefit Listings.....8

WASHINGTON PILOTS ASSOCIATION
1100 Bellevue Way NE, STE 8A (Box 397)
Bellevue, WA 98004

PRESIDENT'S MESSAGE...

JERRY BARKLEY
WPA President

We just had our September board meeting at Felts Field in Spokane. What an awesome meeting! Twenty members of the WPA including state officers, chapter officers and members from across the state were in attendance – the largest WPA Board of Directors Meeting I have ever attended except, of course, the annual general membership meeting in Puyallup. Six chapters were represented from the east and west sides including four younger members that want to get involved. It was nice to feel the energy in the room. Our next board meeting will be in Bremerton on November 11. All chapter members are invited to attend. Let's go for 25!

We are still working on modernizing the website and getting more social media updates on more sites. Riley Staton, a Spokane member, and two younger members from Bremerton, Azalea and Zack Krause, agreed to help the organization with the website and social media updates and will be sharing their input.

There was a presentation by Acting Treasurer Bud Smilanich to upload pictures, events and articles directly to the website which will hopefully give us more content for Wings.

Many other ideas for increasing content for Wings were brought up as well including new member Joe Andrade whose expertise in marketing, communications and web design will be very useful. Committees were also formed to work on these issues.

Remember, we are always encouraging more members to get involved. We are still looking for a new treasurer and other board positions.

SHARING THE JOY OF FLIGHT

BY MARIAN JENSEN

One of the best gifts you can receive in aviation is being told that you made a positive impact on a young person's life by introducing them to flying. What an incredible feeling it is to share the joy of flight!

I recently attended the Astoria Airport Open House and Fly-In organized by the Port of Astoria and the Coast Guard Air Station Astoria. My husband Tom and I were invited to bring our N3N-3 to the event as an example of a WWII trainer used by the Coast Guard to train their new pilots.

The idea was for us to be around our N3N to answer questions from the approximately 1500 people who attended the event. We had neglected to bring chairs, so after standing for a couple of hours, I climbed into the front cockpit of the airplane.

A young pilot came over from the Coast Guard Helicopter on static display next to us. He and my husband were talking when I heard my former name spoken; "Marian Heale?" I looked down and he said with a big grin, "I'm Jason Weeks. You gave me my first ride in an airplane when I was 12-years-old."

I had a big smile too, not that I recognized him, he was 12 years old at the time, but that anyone who is a current pilot could say I had given them their first ride. I believe wholeheartedly in Young Eagles, Teen Flight, and other programs which focus on getting young people interested in aviation, and have given numerous youngsters rides in my Citabria. Turns out 26 years ago I put up a ride over the Spokane Valley as an item to be auctioned off at a Washington State Patrol fund raiser. Jason's mother, Gloria, who worked for the State Patrol, purchased the ride and gave it to her son for Christmas. It also turned out to be as big a gift to me as it was to Jason.

Now, Coast Guard LTJG Jason Weeks has 2,500 hours in rotorcraft and 250 hours in fixed wing aircraft, and has been in the Coast Guard for 19 years. He plans to make aviation his career.

Historically, there were a total of 997 N3Ns built by the Naval Aircraft Factory beginning in 1935. They were tested and delivered to be flown in 1936. There were 179 N3N-1s and 816 N3N-3s. The other two were prototypes. All of the airplanes were originally painted yellow. Four of the aircraft were given to the Coast Guard in 1941. The Coast Guard decided on their own paint scheme. Our N3N was originally owned by Ron Ochs of Madras, Oregon who decided to paint it in the Coast Guard colors even though it is not one of the original four. There is an N3N-3 on display at the Western Antique Aeroplane and Automobile Museum in Hood River that was claimed by the owner at the time of delivery to be one of the original four N3Ns given to the Coast Guard, however the museum has no paperwork to confirm this claim, and the aircraft is painted yellow.

COURTESY MARIAN JENSEN

Meeting up with Jason Weeks in Astora after 26 years

WINGS GOES DIGITAL

Well, this may not be new, because you could always get the newsletter on the web site, but you now have another option. When you renew your membership you have the option to check the Digital only box. Then, you will not receive the printed copy, but you will receive the digital version.
To make it easy we will send you an announcement that the digital version is available and give you a link. Once you get there, you can read it, or print all or part of it. This is an effort to save our Association money. The WINGS publication is our largest expense.

WASHINGTON PILOTS ASSOCIATION

WPA Wings

A Publication of the Washington Pilots Association
227 Bellevue Way NE, PMB 397
Bellevue, WA 98004

WPA Wings is published bi-monthly, (February, April, June, August, October and December).
Submissions are welcomed!

Please send articles via e-mail to: wings@wpaflys.org

Send typewritten or handwritten articles to:
PMB 397, 227 Bellevue Way NE
Bellevue, WA 98004-9721

WPA WINGS is the bimonthly newspaper of the Washington Pilots Association (WPA), which represents the pilots of Washington State. Letters to the Editor are welcome. Letters must be signed by the author and a contact phone number provided.

The WPA reserves the right to edit all letters and to refuse inappropriate advertising. Opinions expressed in ***WPA Wings***, including those in letters to the editor and advertisements, are the opinions of the writers and do not necessarily reflect those of the WPA.

Information included in this publication is intended for entertainment and/or educational purposes only. The reader must not rely on the information contained herein to relieve him/her of the responsibility to comply with Federal Aviation Regulations and instructions. The reader is solely responsible for his/her own safety and in no case shall the publisher, staff, any officer or member of the Washington Pilots Association be held responsible for any use or lack thereof, that readers may or may not choose to make of the information contained herein.

Be smart, and please fly safely.

JOIN WPA

WASHINGTON PILOTS ASSOCIATION

WPA is working to advance the interests of general aviation in Washington State.

PLEASE JOIN OR RENEW TODAY!

www.wpaflys.org

Washington Pilots Association
Serving Washington Pilots Since 1960

On runway 32R at KMWH, 13,502 feet long

COURTESY REP. TOM DENT

STATE REP. TOM DENT
(R-Moses Lake) represents the 13th Legislative District

Summer has flown by. As I write this the mercury is at 40 degrees with fall in the air. Cooler air makes for better flying as long as the ceiling and visibility cooperate. Not much to report legislatively, this late in the interim the work has slowed as we look ahead to the 2024 session.

As I promised, an update on House Bill (HB) 1791. This is the airport siting bill I co-sponsored with Rep. Jake Fey. It was severely curtailed by the partial veto from the governor. Even with the partial veto the committee is still coming together as we sort out just what the veto means and how the committee can move forward in a positive manner.

Applications are now open for the governor appointed seats on the Commercial Aviation Work Group created in HB 1791. Applications are available on the Governor's Boards and Commissions website and application reviews will begin October 9.

On August 2, I worked with the Port of Moses Lake and my seatmates, Rep. Alex Ybarra and Sen. Judy Warnick, to put together a tour of the Grant County International Airport (KMWH).

The tour began the evening before with a welcome reception at the Ten Pin Brewery in Moses Lake. Early the next morning at 0700 the first interim Aviation Caucus meeting was held, and it was well attended. Over 20 folks were in attendance with 22 online. We had a very interesting presentation from the new Washington State Department of Transportation (WSDOT) Aviation Director Ann Richart. It gave her the opportunity to introduce herself to the aviation community. Susan Chlarson gave an overview of the West Coast General Aviation Response Plan (WAGARP). And finally, George Geisler from the Department of Natural Resources (DNR) gave an excellent overview of initial attack on wildfires.

The tour of KMWH began at 8:30 a.m. and continued through lunch and terminated at 1:30 p.m. More than 50 people came to participate in the tour of one of the largest airports in the western United States. The curriculum included:

o Commercial and military flight test and training operations

o Flight training and aerospace workforce development at Big Bend Community College

o U.S. Forest Service Wildfire Tanker Base

o Briefings or Tours of:

- Greenpoint and Aviation Technical Services – unique aircraft interiors
- Boeing – 737 Max and Flight Testing

o Stoke Space Technologies Presentation

o Sila Nanotechnologies - Battery Materials Company Presentation

o TWELVE Sustainable Aviation Fuel Company Presentation

It was a very successful tour, and a big shout out to the Port of Moses Lake for their willingness to host us. Also, a big thanks to all who attended and helped make it the success it was!!

Finally, we are planning another Aviation Caucus meeting in November. However, we do not know any of the details at this time. Please feel free to reach out to me at any time for more details or you are interested in attending.

On runway 32R at KMWH, 13,502 feet long.

If you have comments or ideas for aviation-related legislation, or if you would like me to come to a chapter meeting, please do not hesitate to get in touch with me. You may email me at tom.dent@leg.wa.gov or contact me through my Olympia office at 360-786-7932, or my district office at 509-941-2346. You may sign up for my email updates by visiting my website at representativetomdent.com

Tom Dent is a lifelong resident of Washington and has been a professional pilot since 1976. He currently holds an Airline Transport Pilot Certificate multi-engine land with commercial privileges single engine land. Tom is also a Certificated Flight Instructor for both single and multi-engine airplane and instrument airplane and a certificated ground instructor. He lives on his ranch with his family, the Flying T, seven miles northeast of Moses Lake. Tom represents the 13th District and is currently serving his fifth term in the state House of Representatives.

TREASURERS REPORT...

BY BUD SMILANICH
ACTING WPA TREASURER

WPA is on a sound footing financially and is the best it has been in many years. Membership numbers are steadily increasing, however WPA is in need of updating our communications with our members - especially the younger, social media users that we do not currently address or support on our wpaflys.org website.

Durning the recent board meeting at Felts field in Spokane, the board of directors formed a committee of six members (some older and some from the younger generation of newer pilots) to facilitate ways to make the WPA website more informative, relevant and accessible with links to social media platforms and widely used aviation websites, drawing in members of all age groups and certificate levels. Part of this revamp would be to make it super easy for all WPA members and contributors to upload their photos, events and articles for the Wings Newsletter and the Teamup app to make it a more relevant resource for timely information along with a terrific, robust Member Benefits Program for current WPA members.

You can look forward to seeing these changes being implemented in the next month or two.

100LL

continued from page 1

Note; At the time lead was banned from automotive gasoline the average blood level for children aged 1–5 years was **15.2 µg/dL in 1976–1980**. The following organizations have since established reference values!

The Centers for Disease Control and Prevention (CDC) reference level for lead in blood is **3.5 micrograms per deciliter**. The ***Council of State and Territorial Epidemiologists*** (CSTE) has established a blood lead reference value of **3.5 µg/dL**. This value is used to identify adults and children whose blood lead levels are higher than the 97.5th percentile of adults and children nationwide[23]. The ***California Department of Public Health*** (CDPH) recommends repeating blood lead level tests every 3 months for adults with levels between **3.5 (to) 9.0 µg/dL[24]**. The ***American College of Occupational and Environmental Medicine*** (ACOEM) advises women who are or may become pregnant to avoid occupational lead exposure that would elevate blood lead levels to **3.5 µg/dL or higher[2]**. The ***ABLES program*** uses a threshold of **5 µg/dL** to indicate an elevated blood lead level for surveillance purposes[2].

Both Flint Michigan and Santa Clara, Ried-Hillview Airport, claim a max. increase of **.45 µg/dL** over said baseline. Add that increase to the baseline and the total exposure becomes ***1.28 µg/dL . . . or . . . 63% below CDC reference levels!***

"EPA's modeling and monitoring data states, that lead concentrations at and near airports are typically well below the National Ambient Air Quality Standard for lead (lead NAAQS . . . the primary and secondary standards for lead are 0.15 micrograms per cubic meter of air, measured as a 3-month average . . . or <15,000 µg/dL). Among the more active airports in the United States, there are a few where lead concentrations may be above the lead NAAQS in close proximity to where aircraft conduct pre-fight engine checks".

"For the vast majority of airports, these small areas with lead concentrations potentially above the air standard are within the fence line of the airport and not accessible to the public, in all but a few instances. Lead levels dissipate quickly with distance from piston engine aircraft exhaust. Thus, within 50 meters (164 feet) of the high concentration area, lead levels were uniformly below the lead air standard".

CDC and EPA believe that most common sources of lead exposure in the United States are lead-based paint (homes built pre-1978) and dust, lead-contaminated soil, and lead in water from lead pipes and plumbing fixtures. Other sources of exposure include some toys and jewelry, candies imported from other countries, traditional home remedies, and certain jobs and hobbies that involve working with lead-based products. Children who live near airports might be exposed . . .

Missing from all this technical conversation is the role of City and County planners. They issued the permits for those residential units in proximity to said airports. Runways do not discriminate. Once, they were isolated bodies of land for the expressed purpose of serving the transportation needs of the community and facilitating economic development. Now, we are being asked to curtail our operations because of misguided / misleading statements. The focus needs to be addressing incompatible land use!

Finally, the facts do not support the premise that 100LL Aviation Gasoline is creating an immediate hazard to our children. That said, we have no objections to changing to lead-free fuel. In fact, we see great advantages in terms of reduced maintenance and fuel economy. However, replacement fuels must first be universally available, and FAA / OEM approved! Unleaded Autogas is not a safe or workable substitute! The availability of 100LL belongs at the Federal level, not the State. Any attempt to burden our airports, pilots, or aircraft is truly misguided and dangerous.

Please help us educate our elected officials with ***the facts . . .***

INVIGORATING

continued from page 1

who support them.

We were very fortunate that the weather cooperated, just as we were heading back to the hangar the wind picked up and it started to rain, perfect timing!

Low pass wheels up. COURTESY HOLLY FERRELL

Girls in Aviation Day at Harvey Field with the girls, CJ Joe and me. COURTESY HOLLY FERRELL

One lucky girl taxied back to our hangar. COURTESY HOLLY FERRELL

Visit one of the local restaurants for lunch

DESERT Perk
101 Frontier Way W, Desert Aire, WA 99349

TIDDALY DIDDALYS
Pizza * Hoagies * Salads
Ice Cream * Big Trains
Breakfast * Coffee
23921 Road T.1 SW
Mattawa WA 99349
Next to Mattawa Tire
509-932-5020
Ken Broda, Proprietor

IT'S NOT JUST A PLACE, IT'S YOURS
PLACE
510 Main St SW
Deset Aire, WA 99349
509-932-4412

TUMBLEWEEDS
BLAINE & KIMBERLY KNIGHT
124 Frontier Way W.
Mattawa, WA 99349
509-932-3100
tumbleweed@smwireless.net

FESTIVAL OF FLIGHT

BY ANDY LUEBKE - WPA VP EAST SIDE

This year's Festival of Flight at Pangborn Airport in Wenatchee was a truly special event. The evening of July 7th featured a big band dinner with two extraordinary aircraft on display. If you have seen the feature film Devotion, you will instantly recognize two of its main stars, a Vought F4U Corsair and a Douglas A-1 Skyraider, both used in the film. The scenes depicting 'North Korea' in the movie were actually filmed around Wenatchee, so it was a fitting reunion for both the planes and the pilots. These aircraft are part of the Erickson Collection, based in Madras, OR, and were flown up to Wenatchee for the event.

The festival on Saturday featured many historical aircraft on display such as the famed Miss Veedol, as well as the beautiful Lemon Tryst. The crowd was delighted by the many vintage aircraft on display, as well as fly-bys that were performed by both the Corsair and the Skyraider. The Puget Sound Antique Airplane Club was in attendance with many of their beautiful biplanes and monoplanes.

The WPA was honored to be included in this year's event, and looks forward to the next Festival of Flight.

OAK HARBOR (KOKH) AIRPORT GETS A FACELIFT AND NEW NAME

BY MICHAEL WATKINS - WINGS EDITOR

The quiet and quaint airport formerly known as A.J. Eisenberg (KOKH) is now renamed DeLaurentis Airport. For pilots using frequency 122.8, such as the pilots in Auburn and Shelton, if you hear "DeLaurentis Traffic" know that it is up north in Oak Harbor.

After nearly 20 years of neglect and deteriorating runway conditions it seemingly was destined to go down as the airport time had forgot.

Since the passing of previous owner Joel Eisenberg, the future of the airport was uncertain for those of use that have aircraft there.

The Port of Coupeville offered to acquire the airport but after a rigorous review, the Port withdrew and it was decided the fate of the airport remain in private ownership.

Robert DeLaurentis is the proud new owner and is wasting no time making improvements to the field and facilities. The underground gas tanks have been removed for environmental concerns and all previous electrical has been replaced and upgraded. The hangar doors have also been either rebuilt or repaired and the entire airport has been repainted.

The runway is on the list of improvements and fuel should be available in the future. For anyone needing to fly in to Oak Harbor, please check NOTAMS and expect a hefty landing fee of $20 and $50 a week for grass parking, all of which is contributing to the improvement of the airport which will remain private/public use.

ADVANCED AVIONICS SOLUTIONS LLC

10394 N. Aero Drive, Hayden, Idaho 83835
Pappy Boyington Field (COE)

We are a full service avionics shop now located at Coeur d' Alene Airport.

We are a dealer for Garmin, S-Tec, Aspen, Electronics International, JPI, and Mid-Continent Instruments.

We also service many other major avionics manufacturers!

COME SEE US!

Contact Barry Huck at (208)-209-7328 or barryh@advancedavionicssolutions.com.
Monday through Friday 8-5.

Washington Pilots Association
Executive Committee & Officers

President: Jerry Barkley	206-276-8540
VP West: Richard Beckert	360-653-5464
VP East: Andy Luebke	509-994-7231
Treasurer: Bud Smilanich	425-891-8304
Secretary: Marion Jensen	360-825-6777

Directors:

Membership: Rich Jones	425-349-9802
Airports: Tom Jensen	360-825-6777
Safety & Education: Jonathan Deak	208-819-1670
Govt Affairs: John Dobson	360-898-2319
Dir at Large: Gary Miranda	360-281-0196
Communications: Michael Watkins	360-661-5477

WPA Website: **http://www.wpaflys.org**

WE WANT TO HEAR FROM YOU!

Tell us what you like, dislike, or just sound off about anything aviation. Please include your name and chapter association. Submit entries via e-mail to michaelwatkins1@icloud.com.

SUNDANCE AVIATION

1903 Terminal Dr
Richland, WA 99354
509-946-2515
info@sundanceaviation.net
www.sundanceaviation.net

(RLD) Richland, WA
Full Service FBO:
Aircraft Rental, Flight Instruction
Aircraft Maintenance
Pilot Supplies, Courtesy Car
100LL SS & Truck, Jet A Truck
Aerial Advertising (Banners)

Serving the Tri-Cities Aviation Community for more than 30 years

WPA MEMBER AL BANHOLZER FLIES WEST

BY MARIAN JENSEN

When Esther Banholzer was asked what meant the most to Al – what he took pride in, she answered, "His flying and the time he spent teaching and sharing with kids." After 53 years of marriage, she should know.

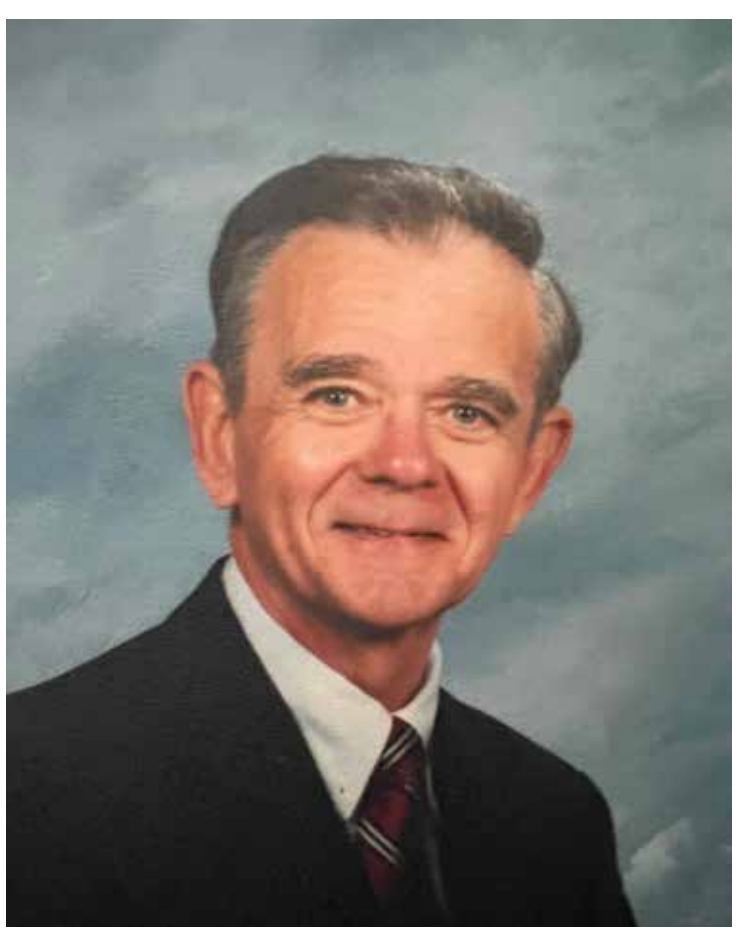
Indeed, one of Al's favorite books was Jonathan Livingston Seagull, which teaches personal growth and improvement through flight. Those who knew him best certainly consider Al a role model for young people.

Alfred E. Banholzer was born July 24, 1934 in Lockland, Ohio, and attended the University of Ohio. After graduation Al joined the Air Force where he stayed for nearly 25 years, attaining the rank of Colonel. Two years of his service included time in Viet Nam flying a C130, often into airstrips under heavy fire. Al was significantly recognized for his flying prowess and strong leadership. He was awarded high medals for his service, including the Legion of Merit, Distinguished Flying Cross, and several Air Medals. Al's flight log shows him to be type-rated in the B-377, B-707, B-720, Convair 240, Convair 340, Convair 440, Lockheed 382 and the North American B-25 Mitchell.

After retiring from the Air Force in 1981, Al formed his own company helping new small business owners set up their corporations correctly with all the proper licenses and contracts required. Al also reentered the world of aviation, this time on the civilian aircraft side, with a C-172.

Al was very active in the Washington Pilots Association, serving as state president for three years while trying to increase state chapters. He was also instrumental in making sure aviation interests were represented in the Growth Management Act for land development near airports. Al helped establish Washington Air Search and Rescue as a corporation in 1993; served on the Renton Airport Advisory Committee, and served with the United States Coast Guard Auxiliary. For the past several years Al met every other month with the US Forrest Service helping to keep Ranger Creek air strip open. He and Esther gathered a group of volunteers together once a year in the spring to have a "Ranger Creek Clean-Up Day" always topped off with Al's famous chili.

Al flew West with no turbulence on August 25, at home with his wife Esther. Godspeed Al.



Al Banholzer

30 YEARS OF GIVING PILOTS THE BEST PRICING AND SERVICE

GARMIN. **AERA 760 PORTABLE GPS**

AERA-760 7" Touchscreen GPS.....$1549
AERA-660 5" Touchscreen GPS.....$849

GARMIN. **GDL-50 SERIES ADS-B & XM RECEIVERS**

GDL-50 ADS-B Receiver.....$799
GDL-51 XM Receiver.....$749
GDL-52 ADS-B/XM Combo.....$1249

GARMIN. **FLIGHT INSTRUMENTS**

G5/PFD (TSO).....$2625
G5/HSI.....$3615
G5/PFD (Exp).....$1495
Plus Installation

GARMIN. **GI-275 EFIS**

GI-275/PFD.....From $3790
GI-275/HSI.....From $4090
GI-275/EIS.....From $4850

GARMIN. **GFC 500 AUTOPILOTS**

Cost-effective, with precise and smooth in-flight characteristics, underspeed/overspeed protection, dedicated "LEVEL" mode button, & coupled approaches.

GFC-500 2-Axis.....Installed from $13,885*
GFC-500 2-Axis + Autotrim.....Installed from $18,850*
** Not including G5/PFD (Required)*

GARMIN. **AUDIO PANELS**

GMA-342.....$1795
4-PL Stereo Intercom • 3D Audio
3.5mm Aux Input • Voice Recorder
GMA-345.....$1975
Bluetooth • USB Port • 3D Audio
6-PL Stereo Intercom • Voice Recorder

GARMIN. **GPS-175 • GNC-355 • GNX-375**

**FREE SHIPPING*

GPS-175 2" Touchscreen GPS.....$4995*
GNC-355 2" Touchscreen GPS/COM.....$6995*
GNX-375 2" Touchscreen GPS w/ADS-B Xponder.....$7690

LED AIRCRAFT LIGHTING

WAT

Parmetheus G3 Landing/Taxi Light.....$299
Orion 600 Nav/Strobe (Set).....$1195
Orion 500 Tail Position Strobe.....$485

AEROLEDS

Sunspot 36 LX Landing/Taxi Light.....$349
Pulsar NS Nav/Strobe (Set).....$1150
Suntail Tail Position Strobe.....$495

ENGINEERING INCORPORATED **AUDIO PANELS**

PMA-450C Audio Panel.....$2195
Advanced capability audio panel with digital display, multiple Bluetooth, audio alerts, USB port, and more!

PMA-6000B Audio Panel.....$1395
PMA-8000G Audio Panel W/BT.....$1795

YAESU

FTA-250L.....$195
FTA-450L.....$239
FTA-550L.....$289
FTA-750L.....$375
FTA-850L.....$449

ICOM

IC-A16.....$269
IC-A25S.....$319
IC-A25C.....$469
IC-A25N.....$529

ANR HEADSETS

BOSE A30 $1299

LIGHTSPEED DELTA ZULU $1199

PCA-ANR/BT $349

These Popular Models & More
Call for Best Price!

AUTHORIZED DEALER FOR:

GARMIN. BOSE LIGHTSPEED ENGINEERING INCORPORATED ELECTRONICS INTERNATIONAL INC. J.P. INSTRUMENTS uAvionix ICOM David Clark

WEST COAST'S LEADING AVIONICS DEALER
Basic installs to complete panel & glass retrofits. Call the leader in experience, service, and pricing.

Pacific Coast Avionics™
SINCE 1991

www.PCA.aero / 800.353.0370

Prices may be changed at any time without notice

MEMBER BENEFITS PROGRAM

WPA Membership has its privileges!

- **DISCOUNTS FROM NEARLY TWO DOZEN BUSINESSES**
  And the list is growing!
- **REGIONAL & STATEWIDE LEGISLATIVE & ADVOCACY**
  efforts focused on promoting and preserving GA throughout Washington State
- **WINGS NEWSLETTERS**
  Printed every two months and digital versions
- **SOCIAL EVENTS & SAFETY SEMINARS**
- **28 LOCAL CHAPTERS**

GET GREAT WPA MEMBERS-ONLY DISCOUNTS AT THESE AVIATION-RELATED BUSINESSES!

Follow the instructions below to access Aircraft Spruce and Spencer Aircraft discount codes, and print your WPA membership card, which can be used as proof of eligibility for discounts from other sponsors.

Go to www.wpaflys.org and click on Member Discounts.

At the top of the Member Discounts page there is a link to access discount codes and print your membership card, which can be used to provide proof eligibility for discounts. Click that link to look up your Member ID then:

1. Enter your member ID.
2. Enter your password
   (click Forgot my Password? if you want it sent to your email address on file).
3. Once logged in, you will see (among other things) Aircraft Spruce and Spencer Aircraft discount codes, and a link to print your membership card.
4. Use the discount codes when you contact Aircraft Spruce and Spencer Aircraft. Print and keep the membership card to show the businesses offering WPA Members-Only discounts.

Pacific Coast Avionics SINCE 1991 — KUAO (Aurora) pacificcoastavionics.com	SPENCER AIRCRAFT SUPPLY — For 10% use WAPAMEMBER spenceraircraft.com
Aircraft ownership for first time buyers and low time pilots. tomahawkaero.com	A.C. Propeller Service, inc. — 5% OFF Repairs acpropeller.com
Free Shipping on VG Kit. microaero.com	Aviation Covers Inc. — 13% OFF Final Bill Year-round. KAWO aviationcovers.com
NORMANDY AIRCRAFT — Services Discount. S50 normandyaircraft.com	AVIATOR PRODUCTS.COM — Ask for WPA Discount AviatorProducts.com
LEFT SEAT — Pilot Medical Solutions, Inc. The Fastest, Most Trusted Aeromedical Service. — 15% OFF Services. leftseat.com	BASETOVINYL — Ask for WPA Discount Coming Soon!
PORT TOWNSEND AERO MUSEUM — 25% off regular admission ptaeromuseum.com	RAINIER FLIGHT SERVICE — Waive $100 membership fee and more! rainierflightservice.com
Bogert — 10% OFF. bogertaviation.com	SEATTLE AVIONICS SOFTWARE — Free 6 Mo. & Discounts on Subscriptions. seattleavionics.com
BUZZ INN Steakhouse — Free Drink with Meal Purchase. Western WA Location. buzzinnsteakhouse.com	GALVIN FLYING — Services Discount. KBFI galvinflying.com
Cascade Aviation — 10% OFF Flights/Flight Reviews. KBVS flycascade.com	Seitz Aviation Aircraft Broker & Pilot Services — $100 credit if you buy or sell! seitzaviation.com
Clean Craft Detailing — 10% OFF any detailing services cleancraftdetailing.com	SIMULATION FLIGHT — 10% OFF Simulator. KPAE simulationflight.com
Small & Sons OIL DIST CO. — Great Oil Prices. KSHN smallandsonsoil.com	SIGN UP SIGN CO — 10% OFF Services signupsigncompany.com
FLYGIRL — Graphic Design Discounts. linkedin.com/in/pilardowell	Vashon — $50 OFF Demo Flight svashonaircraft.com
Dyberg Aviation — 15% off instructor time dybergaviation.com	SKAGIT LANDING RESTAURANT & CATERING — Free beverage with purchase of meal skagitlanding.com
Aircraft Spruce & Specialty Co. SINCE 1965 — Receive 5-15% OFF every purchase! aircraftspruce.com	FLYITACADEMY — 5% OFF on Instructions or Plane Rental. 1W1 flyitacademy.com
VERTEX AVIATION — $300 discount on flat rate inspection and more! vertexaviationservice.com	WESTERN AVIATION — 10% discount in the pilot shop store
McFarlane — 5% off online orders! mcfarlaneaviation.com	

FIND WPA MEMBERS-ONLY DISCOUNTS AT WPAFLYS.ORG

(CLICK ON MEMBERS BENEFITS TO SEE THE LATEST)