



# STRAIGHT SCOOP

Volume XVII Number 8 August 2012

## PACIFIC COAST AIR MUSEUM

To promote the acquisition, restoration, safe operation, preservation and display of historic aircraft, preserve aviation history and provide an educational venue for the community



### PACIFIC COAST AIR MUSEUM RECEPTION *at* KAISER AIR SANTA ROSA JET CENTER

- ★ Meet & Mingle with the Air Show Performers
- ★ See the Performer's aircraft
- ★ Hors D'Oeuvres
- ★ No Host Bar
- ★ Free Parking
- ★ \$20 to Sponsor a Performer

**\$30 per person**  
 Tickets available at:  
[www.wingsoverwinecountry.org](http://www.wingsoverwinecountry.org)  
 Pacific Coast Air Museum  
 Kaiser Air Santa Rosa Jet Center  
**For Info 707-575-7900**

CHARLES M. SCHULZ - SONOMA COUNTY AIRPORT  
SANTA ROSA, CALIFORNIA

**FRIDAY AUG 17th, 2012**  
 6:00PM - 8:00PM  
[www.WingsOverWineCountry.org](http://www.WingsOverWineCountry.org)



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

(707) 575-7900

## The Pacific Coast Air Museum

**Location:** At the Charles M. Schulz-Sonoma County Airport, North of Santa Rosa, West of Highway 101, at 2230 Becker Blvd, off North Laughlin Road.

**Hours:** Tuesday, Thursday, Saturday and Sunday. 10:00am—4:00pm.

**“Climb Aboard”:** A selected aircraft is available to “Climb Aboard” the third weekend of each month (weather permitting). Please visit our web site at [www.pacificcoastairmuseum.org](http://www.pacificcoastairmuseum.org) or call 707-575-7900 for details or further information.

**Member Meetings:** Normally held on the third Wednesday of each month, 7:00 pm at Mesa Beverage Company, Inc. 3200 N. Laughlin Road, Santa Rosa, CA

### “Straight Scoop”

The museum newsletter, “Straight Scoop” is published monthly and is available online on the museum’s web site. Members are highly encouraged to submit articles for possible publication. The deadline is the 26th of the month prior to publication. All articles in the newsletter are covered by copyright. If you wish to submit articles or use any of the content, please contact: [Peter Loughlin](mailto:Peter.Loughlin@loughlinmarketing.com), Editor, in care of the Pacific Coast Air Museum, 2230 Becker Blvd., Santa Rosa, CA 95403, [pcam-news@loughlinmarketing.com](mailto:pcam-news@loughlinmarketing.com), 707-575-7900.

### Membership Renewals:

\$30 per year individual; \$45 per year for families. Send renewals to the museum, address below.

**Address Corrections:** Please send to: Pacific Coast Air Museum, 2230 Becker Blvd., Santa Rosa, CA 95403

Please visit our web site at [www.pacificcoastairmuseum.org](http://www.pacificcoastairmuseum.org) or call 707-575-7900 for details or further information.

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## Second Annual Western Pig Barbeque — Good Food and Fun on a Lovely June Evening

The Pacific Coast Air Museum celebrated the second annual Pig Barbeque on a balmy Saturday evening this past June. Barbeque pork, Caesar salad by Lynn Hunt, macaroni salad, beer donated by Mesa Beverage and wine were enjoyed by over 260 hungry guests. In addition to good food, an auction featuring an airplane ride, a week at the Tahoe Marriott Timber Cove and other exciting items raised considerable funds for the museum.

All in all, it was a fun evening of good food, good drink, and lively conversation.



## *Learning to Learn Takes to the Skies*

A group of local kids from the *Learning to Learn* Preschool and Child Care Center visited the Pacific Coast Air Museum recently. Climbing aboard our Huey was one of the highlights of their tour. They say they're looking forward to coming back next year.

Future pilots and ground crew? We hope so!

Your contributions and our dedicated volunteers make fun and educational experiences like this possible. Thanks to everyone who helped out.





# Wings Over Wine Country™

Presents "The President's Club", an exclusive tent located along the Air Show flight line. You are able to enter the tent as often as you wish. The President's Club offers both shaded and sunny seating areas and the following:

- Free Parking
- Admission to the Air Show
- Continental Breakfast
- Gourmet Catered Lunch
- Assorted Desserts and Snacks
- Coffee, Tea, Water, Soft Drinks, Beer and Wine  
(Proof of age required for alcoholic beverages)
- Private Rest Rooms

# PRESIDENT'S CLUB

August 18-19, 2012

Purchase a One-day membership by July 31st for \$120\*, \$125 after July 31st. Limited Seating: A total of 135 people per day  
\*Entry to the President's Club requires a President's Club ticket for each individual regardless of age



# Wings Over Wine Country™

**KAISER AIR**  
SANTA ROSA JET CENTER  
CHARLES M. SCHULZ - SONOMA COUNTY AIRPORT  
SANTA ROSA, CALIFORNIA

Tickets available on-line at  
[www.wingsoverwinecountry.org](http://www.wingsoverwinecountry.org)  
call 707-575-7900

PACIFIC COAST AIR MUSEUM IS A TAX-EXEMPT CHARITABLE ORGANIZATION  
UNDER IRS SECTION 501(c)(3) FED ID 68-0216262

# AUGUST 18 & 19

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



PACIFIC COAST AIR MUSEUM

# AIR SHOW

## F-106 Gets Its Long Awaited Tailhook!

Thanks to our F-106 Crew Chief, Jim Mattison, our F-106 Delta Dart finally has the tailhook that adorned the "Six" during its many years of operational service in the U.S. Air Force.

Jim manufactured the tailhook in his garage, then painted it himself.

Since the F-106 tailhook has saved many a pilot's life (including a Pacific Coast Air Museum member who is a former F-106 pilot), getting one for our "Six" has been a museum priority for seven years. Many museum visitors ask why some Air Force aircraft have tailhooks, since they are usually associated with naval aircraft and carrier landings. The tailhook on an Air Force tactical aircraft can be lowered to engage an arresting cable stretched across the runway during an emergency landing or aborted takeoff. This can prevent the aircraft from overrunning the end of the runway, saving both the pilot and the plane.

David Sandine recently built from scratch the Tactical Situation Display (TSD) for the F-106 cockpit. Our museum's former F-106 pilot said he couldn't tell it from the original.

The F-106 still holds the world speed record for single engine turbojet aircraft. This record was set by late Pacific Coast Air Museum member Colonel (Ret) Joe Rogers.



Thanks to Jim and Dave and all our crew chiefs and crews for all you do for the Pacific Coast Air Museum.



## Wings Over Wine Country Air Show Attractions

Here are just a few of the great aviation attractions you can experience at our 2012 air show. Join us at the Charles M. Schultz - Sonoma County Airport, August 18 & 19, 2012. Visit the air show website at <http://www.wingsoverwinecountry.org/> for more information, or purchase tickets online at <http://www.wingsoverwinecountry.org/tickets/>

### F/A-18F Super Hornet Tactical Demonstration

The Flying Eagles of VFA-122 bring an aerial demonstration showcasing the tactical superiority of the Super Hornet. From the high-G minimum radius turn to the slow-speed / high-alpha pass, you will see the "Rhino" display its awesome speed, agility and power.



### USMC AV-8B Harriers

USMC AV-8B Harriers will perform flybys and be on static display to help celebrate the 100th anniversary of Marine Corps Aviation. The USMC AV-8B Harrier is a vertical takeoff and landing ground attack aircraft.

### A-10 Thunderbolt Heritage Flight

The U.S. Air Force Heritage Flight program presents the evolution of USAF air power by flying today's state-of-the-art fighter aircraft in close formation with vintage fighter aircraft. This year's Heritage Flight will feature a P-51 flown by Steve Hinton.



### U.S. Air Force U-2 Flyby

Powerful and silent, the U2 Flyby is eagerly anticipated by the crowd. The U-2 is a single-seat, single-engine, high-altitude reconnaissance aircraft. Long, (very long: 103 feet) wide, straight wings give the U-2 glider-like characteristics.



## Wings Over Wine Country Air Show Attractions

Continued

### Kent Pietsch

Kent Pietsch will fly a comedy act in his 1942 Interstate Cadet. You'll see some extreme maneuvers and startling sights, including an aileron falling off in midair! In addition, Kent performs a dead stick (total power off) aerobatic routine from an altitude of 6,000 feet. This is one awesome act!



### Julie Clark

Julie proudly flies her magnificent MENTOR T-34, wowing fans of all ages with her patriotic presentation "Serenade in Red, White and Blue." Her act is breathtakingly choreographed with multi-colored wingtip smoke trails and dazzling fireworks. Julie was a 2011 Air Show Hall of Fame inductee.

### Tim Weber

Tim Weber really tears up the sky! His aerobatics in his Extra 300S are exciting combinations of tumbling and high-speed rolls. Tim's aggressive flying makes him one of the top air show performers in the United States. Tim also writes and records his own music for his air show routine!



### Static Aircraft Displays

In past years a wide variety of aircraft have been on display, and we're expecting a good turnout this year too! Look for lots of P-51 Mustangs and a whole gaggle of P-40 Warhawks. We're also expecting a B-25 Mitchell, a Hawker Sea Fury, a C-17 transport, and an AH-1Z Cobra gunship!

## Wings Over Wine Country Air Show Attractions

Continued

### Bill Cornick

Bill thrills crowds with his exciting high power aerobatics. A veteran air show performer, he is well known as an outstanding showman and a top Unlimited competition pilot.



### Spencer Suderman

Spencer's air show performance showcases the capabilities of the Pitts Biplane. Intense gyroscopic maneuvers include the incredible Double Hammerhead and the Inverted Flat Spin with its signature corkscrew smoke trail as the plane drops towards the ground spinning like a Frisbee!

### Famed Air Show Announcer Danny Clisham

The SkyTalker will keep you in the Top Fun zone. You'll be listening to the announcer with more awards and honors than any other announcer in the history of air shows! Now fasten your seat belts, folks... you're going for a ride!



### Kids World

This year's Wings Over Wine Country Air Show has lots of things to do for families and kids. We'll have a huge Kid's World with jumpies, inflatables, and rides, and a fun trackless train for kids and their parents to ride. And there will be a terrific assortment of great food and novelty vendors.

### Pancake Breakfast

Come early on Saturday and Sunday for a delicious pancake breakfast! This is a great way to fortify yourself for a day at the show, and to enjoy the company of other air show fans. Pancake breakfast tickets can be purchased for \$8.00 at the door, in advance at the Museum gift shop, or online at [www.wingsoverwinecountry.org](http://www.wingsoverwinecountry.org). Air show tickets are sold separately.





## New Members

Ken Fischang – Santa Rosa  
 Robby & Wendi Crabb Family – Santa Rosa  
 Andrew & Helen Barnes Family – Santa Rosa  
 Hope Burgher Family – Santa Rosa  
 Earl King Family – Santa Rosa  
 Charles Durham III & Kristen Dolphay  
 Marty & Leslie Culpepper – Cloverdale  
 Michael Elliot-Jones – Santa Rosa  
 Danelle Jacobs Family – Sebastopol  
 Cindy Hooper – Monte Rio  
 Carl Nale & Lynda Chaplin – Windsor  
 Phil & Karla Greschner – Petaluma  
 Kurt Hawkyard Family – Santa Rosa

Karin & James Diaz – Vacaville  
 Arthur Battles Family – Santa Rosa  
 Michael Elliot-Jones – Santa Rosa  
 Stephine & Matthew Jazuk – Petaluma  
 Bev Godwin – Santa Rosa  
 Peter Loughlin – Santa Rosa  
 Benjamin Marchand – Healdsburg  
 Alan Chensvold – Santa Rosa  
 Michael Callen – Santa Rosa  
 Marc & Kelly Osborne – Windsor  
 Thomas Hopkins – Petaluma  
 W. Dennis Hutton

## Donations Since the Previous Newsletter

Hillary Schweiso

## Check Out the New Look in the Gift Shop

The Museum Gift Shop now has upgraded merchandise displays, more appealing signage and more. Thanks to Bob Conz and new Gift Shop volunteers Mike Lynch and Chris Wall (both with years of retail and merchandising experience) our Gift Shop is looking better than ever. Stop by and say "Hi" to Bob and his crew. As an incentive, Air Show Pancake Breakfast tickets are for sale in the Gift Shop and 2012 Air Show t-shirts should be available next week!

## Help Wanted: Volunteer Coordinator

We would love to find a new Volunteer Coordinator to help Norma Nation with our volunteer program. Phyllis Morton got off to a good start on the Volunteer Coordinator program, but resigned for personal reasons.

The job can be a real fun and enjoyable one. It entails:

- Making contact with our members who have previously expressed interest in volunteering and following up with them.
- Initiating contact with new members to see where their volunteer interests lie and following up with them.
- Recruiting new volunteers from both the membership and the community.
- Instituting and carrying on programs which thank and reward our volunteers.

The work can be done mostly from home, or at the museum on the Volunteer Coordinator's computer.

If you are interested, please contact President Allan Morgan at [amrgn@comcast.net](mailto:amrgn@comcast.net) or call him on Tuesdays or Thursdays at the museum, 707-575-7900.

## In Case You Missed It: July 18 Member Meeting Guest Speaker

### Einar Enevoldson of the Perlan Project

At our July meeting, Pacific Coast Air Museum members got a look at history in the making.

Our guest speaker was Einar Enevoldson, former USAF Captain, NASA test pilot, founder and Chairman of the Board of The Perlan Project. He spoke to us and shared a visual presentation about the project he conceived back in 1992 to fly a sailplane to 90,000 feet. The Perlan Project will take advantage of the high winds and stratospheric mountain wave patterns that form over certain mountain ranges to lift the purpose-built Perlan II to heights previously accessible to only the most advanced jet aircraft. This record-breaking flight is expected to take place in the Summer of 2013.

#### Perlan I Proved the Concept at 50,671 Feet

Einar and his then co-pilot, the late aviation pioneer Steve Fossett, already proved the feasibility of the project in an earlier phase. In 2006, Einar and Steve flew the Perlan I sailplane to a record altitude of 50,671 feet. The record still stands.

Einar went into some detail about his experience with Perlan I. It was a modified DG505M powered sailplane. They removed the engine, fuel tanks, and other equipment and added liquid oxygen tanks and heat exchangers. After finding no success over the mountains of New Zealand, they headed to Calafate in southern Argentina where they made several flights including their record-breaker. There, a tow plane would pull them to 12,000 feet over the lower Andes, where they released from the tow and subsequently rode the mountain waves. Navigating cooperatively, Einar and Steve usually managed to find the



Perlan I in flight over New Zealand, July 2002.

sweet spot in the wave where the lift was strongest, a strip only about 500 yards wide and running parallel to the mountain range. Their record-breaking flight took about five hours and Einar described it and the other flights as exhausting.



Einar and Steve back on the ground just after one of their flights in Perlan I. The pressure suits were formerly used by SR-71 pilots.

Perlan I was not pressurized, so pressure suits were required. These were the same suits used by SR-71 pilots, and were not designed for use in the confines of a sailplane cockpit. They expanded at altitude and interfered with the controls to the extent that Einar had to wrestle the stick back and forth against the suit's inflated legs. Steve's suit also had problems with oxygen system icing, which forced them to abort one flight and threatened to ruin what became their record-breaking flight.

## July 18 Member Meeting Guest Speaker, continued

### Perlan II Aims at 90,000 Feet

Perlan II is currently nearing completion. It is built of carbon fiber and other advanced materials and features a pressure cabin so they can dispense with the pressure suits. Although frail looking and possessed of an 84-foot wingspan, it is stressed to nine G's to handle the potential turbulence. It will also feature a drogue parachute which can be deployed out the tail in an emergency, pitching the nose down and enabling a rapid and safe descent.

The test flights for this aircraft are scheduled for September 2012 in Nevada, and will end in Spring 2013. Then in the Summer of 2013 the team will head back to Calafate to make their attempt at 90,000 feet.

The project also has an educational aspect, involving the Desert Research Institute and high school students from various places around the country. Students in Louisiana are conducting tests on the effect of ozone on parachute nylon. Chute nylon deteriorates very quickly in the presence of ozone, but there is remarkably little data available on this phenomenon.

Why the 90,000 foot target and not higher? Einar used some impressive images to illustrate how the mountain waves actually increase in amplitude at higher altitudes, so the higher you go the higher it is possible to go. So it seems that reaching heights in excess of 90,000 feet is possible. However, above 100,000 feet one can encounter extremely turbulent "breaking waves" that could throw the aircraft all over the sky. Thus, they will limit the Perlan II flight to 90,000 feet. We would probably all agree that at nearly twice their current record, that is high enough.

### About Einar Enevoldson

A lifelong glider pilot, Einar is a former jet fighter pilot in the USAF and exchange officer with the Royal Air Force. He attended the Empire Test Pilots' School in Farnborough, England. Following graduation, he served as a test pilot on the Hunter, Lightning and Javelin British fighter aircraft from 1966 to 1967. From 1968 until 1986 Einar was a NASA research pilot at the Dryden Flight Research Center, Edwards, CA. Among the many planes he flew for NASA were the YF-12A (interceptor version of the SR-71), the oblique wing AD-1, Controlled Deep Stall Sailplane and a highly modified version of the F8 Crusader with long slim supercritical wings. Of particular note in his portfolio was testing the X-24B Lifting Body which proved the feasibility of landing the space shuttle without power. He was twice awarded the NASA Exceptional Service Medal.

For more information about the Perlan Project, visit their website at <http://perlanproject.org/>.

The Pacific Coast Air Museum extends its thanks to Einar and the Perlan Project for this fascinating presentation, and wishes him and his team the best of luck in setting this record!



Computer-generated image of Perlan II. Note the ultra-streamlined but low-visibility cockpit. An onboard video camera will help with landings.





"Wings Over Wine Country"  
Air Show  
August 18 and 19  
9:00 a.m. to 4:00 p.m.

### REMEMBER THESE DATES

Wednesday, August 8	8:30 a.m.	Board of Directors Meeting at the Museum
Thursday, August 9	12:00 p.m.	Executive Director's Staff Meeting at the Museum
Wednesday, August 15	6:00 p.m.	Required Air Show Volunteer Orientation & Safety Meeting at the Museum
Friday, August 17	6:00p.m.	Performers Reception, Kaiser Hangar (tickets necessary: available at Museum and at Air Show web site)
Sat & Sun, Aug 18 & 19	9:00a.m. - 4:00p.m.	Wings Over Wine Country Air Show

**PACIFIC COAST AIR MUSEUM**

**2230 Becker Blvd.**

**Santa Rosa, Ca 95403**