

EAA 663 NEWS

Livermore, California



EAA 663 BBQ Livermore 7-14-2018

Membership Meetings

First Thursday of the month

Doors open at 7:00 p.m

Cookies & Meeting 7:30 p.m

Thursday, December 6

Presenter: **Low Jennings**

**“19 Minutes to Live”
Cobra Helicopter
Experiences**

Presentation: ~8:00 PM

Guests Welcome

Board Meetings

3rd Thursday of every month at
7:00 PM

December 20, 2018

Location: John Youngblood's
House

Save the Date



Ralph Cloud's Kitfox Dreams of Idaho Backcountry

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Bob Farnam

EAA 663 Tools 925-989-5035

Brad Olson

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Kirk Knight

EAA 663 Newsletter 510-390-0840



RV-4 "Cover Girl" interior

President's Message

By John Youngblood

As the holidays approach and 2018 comes to a close, we look back on a very active year for Chapter 663. Some of those highlights include over 110 Young Eagles flown by more than a dozen volunteer pilots. Once again, Trina and David Anderson planned, supervised and conducted seven very successful Eagle Flight Rallies alternating between Livermore and Tracy.

This summer, we had five Saturday afternoon barbeques at John Goldsmith's hangar with the Ray brother's conducting the grill operations. A special thanks to Jon DeVocht for help during BBQ setup and for bringing his special desserts and BBQ toasted garlic bread for all.

Our monthly speakers during the year were as different as they were interesting. Topics ranged from understanding lithium ion batteries and electric airplanes to aircraft carrier operations, techniques of flying gliders, the BD-5 jet, Cobra Helicopters and an explanation with video of how to shoot down an F-4 Phantom with missile from an F-15 missile.

Chapter member Dave Walters has started a monthly luncheon fly out program for our members. The first scheduled flight to Quincy was nixed due to the heavy smoke from Butte County fires. He's scheduled the next fly out to Watsonville next week on December 8th. The plan is to meet at Ella's Restaurant on the field around 10:45AM. Contact Dave at grayson_segal@yahoo.com if you plan to go. He'll make reservations at the restaurant for our chapter.



Next month is our Annual Awards Dinner. It is scheduled for Saturday, January 19th at the Veteran's Memorial Building in Livermore. Doors open at 6pm for wine and appetizers. Dinner will be served at 7pm. We are fortunate to have Space Shuttle Astronaut Rex Walheim as our featured speaker. Mr. Walheim is a veteran of three shuttle missions, logging more than 36 days in space including five spacewalks. What a great opportunity to find out all you ever wanted to know about living in and getting to and from the Space Station. Be sure to sign up soon with our treasurer, Mark Palajac.

I hope to see everyone at the Chapter meeting this Thursday, December 6th to learn about the history of vertical flight and combat flying of the Cobra helicopter.

EAA Chapter 663 Minutes

NOVEMBER 2018 MINUTES: GENERAL MEETING EAA CHAPTER 663,
11/1/2018, 7:33 PM FIVE RIVERS AVIATION MEETING ROOM, KLVK.

Chapter President John Youngblood called the November 1, 2018 meeting to order for EAA Chapter 663 members and guests. Vice President Chuck Ray, Treasurer Mark Palajac and Secretary Kirk Knight joined John on the flight deck. Twenty-three members and guests were in attendance.

Unfortunately, Dan Dyer CFI, who was scheduled to talk about the New Class Bravo Bay Tour, was unable to attend. He is being rebooked.

Chapter 663 meetings warm up about 7:00PM with the practice of showing the ~20 minute monthly EAA Chapter Video produced by EAA HQ in Oshkosh. Most of the featured content is not available online. Members and guests can arrive at 7:00 for ad hoc discussion, as the audio track is kept low enough to be heard but not to interfere. Often people will turn to watch something of interest in the video.

GUESTS included Richard and Rex Silvia, who want to learn how to fly. Both were greeted with warm applause. John gave a brief overview of Eagle Flights and offered to talk with them at the break.

TREASURER'S REPORT: Mark Palajac stated we have 79 members and \$4,130.45 in the bank after our last BBQ bill came in. Mark mailed a check to Bob Franklin for the bead blaster repairs – but the letter was returned because his mailing address had changed 13 years ago! So this is a good reason to update Mark with your correct address when you renew your 2019 membership, even you haven't moved for 13 years.

Mark reminds everyone to forward the names of spouses and significant others so he can send out email invitations to Chapter functions such as BBQs and Annual Awards Dinner. **Mark is accepting \$30 payment for 2019 memberships.**

TOOLS: Bob Farnam has a new supply of reflective tape for the prop balancer. Darryl Ray went over some the repairs to the bead blaster. New pressure switcher and other tune up items with most of the work done by Bob Franklin.

NEWSLETTER and MINUTES: Kirk is soliciting stories about check rides, insights from your first or your 30th BFR. If you have photos, stories you want to tell (record them and I'll transcribe), videos, lessons learned or other items of interest kindly send them to captkirk@woz.org.

Errata: A few errors in the November newsletter – Bob Tucknott (not Buchthal), once Rich Perkin's name came out as Rick. That wasn't Bob Farnam's Quickie, it

was Rich Patel's Q-200 at the Livermore Open House. The Secretary appreciates that people are closely reading and enjoying the newsletter.

YOUNG EAGLES: Young Eagles Coordinator Trina Anderson isn't here because she and Dave are reported to be sitting on a beach in Kona. She's prepared a schedule for 2019 Young Eagle events.

April 13, 2019	KLVK
May 11, 2019	KTCY
June 8, 2019	KLVK
July 13, 2019	KTCY
August 17, 2019	KLVK
September 14, 2019	KTCY

Our pilots have flown 110 Young Eagles in 2018. Many pilots have flown numerous Young Eagles. There is a special EAA award, including a financial bonus from national to the local chapter, if you fly 10 Young Eagles in a year, but no award if you fly 9! We were reimbursed \$330 from EAA National last year. Each Young Eagle is counted as a flight, even if you have several aboard at once. So Trina is encouraging the pilots to arrange to fly a Young Eagle or more to reach that 10, and document it before year end. This does not have to be part of a YE event to count, but you do need to provide the appropriate support material. Email Trina and she'll get certificates, logbooks and handouts to you by mail. 209-609-2162 DNTAnderson@gmail.com

Trina wants to give more 17 year olds an opportunity to fly before they "age-out" of the YE program. You can current schedule with FlightSquid.com and she hopes we still have it next year as it helps manage the Young Eagle program quite well. You can also ask questions or find instructions on the chapter Slack discussion site. Note Young Eagles is for ages 8-17.

Trina and Dave have a big announcement: They'll be active in Young Eagles in 2019, but in 2020 they're planning to move to Hawaii. This means 2019 is a great time to transition to the next Young Eagle coordinator(s). Their efforts received sustained round of applause for superb execution of a key component of the EAA mission – introducing the joy of flying to as many people as possible.

EAGLE FLIGHTS: John Youngblood took a candidate Eagle for a Bay Tour, then over to Attitude Aviation to meet an instructor.

WEBSITE: Brad Olson is handing things over to Will Pitt with new software. More to report soon.

FLY-OUT EVENTS: Dave Walters is helping organize weekend fly outs. Slack is a useful resource with the goal of organizing a couple weeks beforehand, but there are last minute changes due to weather and smoke. Dave was trying to organize to Quincy [ED: but the Camp Fire in Butte County made it impossible to fly VFR to Quincy]. Dave perked up a few ears with the idea of a future flight to Salinas and a

tour of Pacific Airmotive to see P-51 Mustangs being rebuilt. Keep in touch with Dave or check with John Youngblood to get access to the information.

Other Aviation Activities: **Tom Manger** runs the Aviation Explorer Post 997 with 10 coed kids while working on the STEM Center. He's seeking help supervising the kids for a **BuildAPlane.Org** project that already has a donated Sonex A Quickbuild kit. It comes with Dynon avionics package for Jabiru 3300 (engine and prop not included). Foothill High School now has 2 aerospace engineering classes with 50 kids. He's arranging for 12 of the first 25 kids from the first class to participate. He wants to get these kids here on a regular basis.

2019 MEMBERSHIP DUES:

Time to renew EAA chapter 663 membership. You can renew by providing your check in the amount of \$30, made out to EAA 663. You can give your check to Treasurer Mark Palajac at the chapter meeting or mail it to Mark at his home address. (Mark Palajac, 932 Florence Road, Livermore, CA 94550).

Please don't give money to other chapter officials, especially cash as the middle men are known to forget where the money came from or it takes a long to find its way to our bank account.

BOARD MEETINGS: Next Board Meeting is December 20th 7:00PM at John Youngblood's house. Email John for meeting address, all are welcome.

DECEMBER Chapter Meeting will be on December 6th at 7:00PM at Five Rivers Aviation Livermore Airport. Speaker will be Lew Jennings talking about his experiences as a Cobra Helicopter pilot in Vietnam and his book "19 Minutes to Live."

ANNUAL AWARDS DINNER: January 19th, 2019 at Veterans Hall in Livermore. Guest speaker will be NASA Astronaut Rex Walheim. [ED: See his bio on page 12]

Rex Joseph Walheim is a retired United States Air Force officer, engineer and NASA astronaut. He flew three space shuttle missions, STS-110, STS-122, and STS-135. Walheim logged over 566 hours in space, including 36 hours and 23 minutes of spacewalk time. He's from Redwood City.

POLO SHIRTS WITH EAA 663 LOGOS: First shirt is \$10 for members; all other shirts are \$22. Ask Mark Palajac.

MEETING BREAK 8:02 PM

MEETING RESUMED: 8:15PM

GUEST SPEAKER: Chapter Member Barry Weber followed up October's EAA 2018 Airventure (Oshkosh) presentation with some historical perspective from the 1990s. He has tried to photograph every aircraft type on the field and captured this

in slides. Barry brought 200 slides he organized by areas of interest. Showing them required finding an operational slide projector and trays.

Barry and those in attendance compared the wide variety of Experimental planes in the 1990s with the relatively narrower selection at today's Oshkosh.

One of the most remarkable photos was **Brigadier General Paul Tibbets, Jr**, pilot of the B-29 Enola Gay, standing with Barry at Oshkosh. Barry recounted that Tibbets was being escorted around the show by a publicist. Tibbets quietly stood to the side as his escort told story after story about the escort's own adventures.

While the escort was distracted Barry got to chat with Tibbets, who complained it was the first time he'd ever been to Oshkosh, and he came to see some planes at the show. Barry said, "I know what's interesting and would gladly show you around." So Tibbets pointed to his golf cart and said, "That's mine, let's go!" The two of them took off to look at airplanes for the next hour or so.

When they returned the escort hadn't moved from his spot and was still ratcheting his jaw. General Tibbets and Barry had a memorable experience.



Brigadier General Paul Tibbets, Jr. & Barry Weber
at Oshkosh 1999

It just goes to show that you meet the most amazing people around planes!

MEETING ADJOURNED By John Youngblood. 8:56 PM

Minutes reported by Secretary Kirk Knight.



John Youngblood presents
Lifetime Membership to Ralph Cloud



Dr Alan Brown describes F-117 details
at 2018 Annual Dinner



Young Eagles Coordinator Trina Anderson captivates Soon-to-Be Young Eagles



John Youngblood's Velocity with
Young Eagle and father



Dave Anderson & Young Eagle

Fly Out Survey

by Dave Walters
Choose your top 10

Location		Distance (NM)	Airport MSL	Runway (length)	Picks
Half Moon Bay	KHAF	35	66'	5000'	_____
Lodi	103	35	59'	3574	_____
Nut Tree	KVCB	41	116'	4700'	_____
Watsonville	KWVI	45	163'	4500'	_____
Sac Exec	KSAC	50	23'	5503'	_____
Mather AFB	KMHR	57	98'	11301'	_____
Woodland	O41	58	125'	3769'	_____
Los Banos	LSN	59	121'	3801'	_____
Salinas	KSNS	62	84'	6004'	_____
Castle AFB	KMER	63	190'	11802'	_____
Columbia	O22	69	2120'	4673'	_____
Auburn	KAUN	83	1538'	3700'	_____
Willows	KWLW	111	141'	4125'	_____
Lake Tahoe	KTVL	112	6268'	8541'	_____
Harris Ranch	308	116	470'	2820'	_____
Truckee	KTRK	126	5901'	7000'	_____
Bridgeport	O57	128	6471'	3854'	_____
Quincy	201	141	3418'	4105'	_____
Red Bluff	KRBL	148	352'	5431'	_____
Oceano	L52	167	14'	2325'	_____
Delano	KDLO	170	316'	5659'	_____
Shelter Cove	OQ5	176	73'	3407'	_____
Kern River	L05	202	2614'	3500'	_____

August 2018



John Goldsmith & his RV-7A
with Young Eagle



John with Pete "Shadow" Ford Aviation
Risk Management + F-15s May 2018



John Goldsmith, Jeffrey Larson, Bob Farnam, Dave Anderson at Livermore Open House



Joseph Oldham Sustainable Aviation-
April 2018



sustainableaviationproject.com

EAA 663 Tools as of June 2018

1. “G” Meter. This is a free standing mechanical “G” meter that can be temporarily mounted in an airplane for phase 1 testing.
2. Antenna analyzer/SWR meter. Has a local radio frequency oscillator which allow SWR checking across the aircraft band to measure SWR and resonant frequency. Has other tests also.
3. Battery Load Tester. Test your battery under load for a valid test.
4. ELT Beacon tester, 406 and 121.5. Can test whether by direct connection to the beacon or by radiated signal wirelessly. For 406 beacons, can read out the information being broadcast.
5. Bead Breaker. Smaller unit intended for tires up to motorcycle size.
6. Borescope, rigid. Self contained with integral screen and recording
7. Borescope, articulating, for use with smartphone. The camera can be remotely bent around up to 180 degrees for a better look at engine internals
8. Brake riveter, hammer type.
9. Brake Riveter, Screw type.
10. Carbmate carburetor synchronizer (for Rotax mostly). This unit is intended for engines with twin carbs
11. Compression tester. Standard unit.
12. Crimping tool, heavy. For crimping heavy lugs such as used on battery cables
13. Drill Doctor. For sharpening drills, knives and scissors. Electric
14. Panel punch. Mechanical punch for aluminum panels in both standard sizes for round gauges.
15. Prop balancer. Active prop imbalance measure. Optical rpm measure and mechanical vibration amplitude measure with phase difference to allow placement of balance weights, typically on the spinner.
16. Scale, crane. Hydraulic scale for use with a crane for measuring lifted weight.
17. Scales, electronic. With 4 scales, 4 rollup ramps, and a master control which will show the weight on each wheel. Has tare weight adjustment.
18. Spark Lead Tester, High Voltage leakage. Generates high voltage on spark leads to check to leakage.
19. Spark plug tester, pressure. Can check sparking under pressure. Needs separate compressor.
20. Spark plug resistance tester. Check for proper range of internal resistance of spark plugs.
21. Tachometer, optical
22. Tensiometer, cable. Measure cable tension.
23. Tubing flaring tool.
24. Ultrasonic cleaner, mostly for injectors. Small bath cleaner used with clean water and a few drops of detergent.
25. Wire marker, Kroy. Makes shrink wrap wire marker with alpha or numeric markings. You may have to buy the marker stock you want to use.

ASTRONAUT BIOGRAPHY



Rex J. Walheim

(Colonel, U.S. Air Force, Ret.) NASA Astronaut

Rex J. Walheim is a veteran of three space flights. He has logged more than 36 days in space, with over 36 hours in five spacewalks. Walheim served on STS-110 in 2002, STS-122 in 2008 and STS-135, the final flight of the Space Shuttle Program in 2011. He received a Bachelor of Science in Mechanical Engineering from the University of California, Berkeley and a Master of Science in Industrial Engineering from the University of Houston. Currently, Walheim is serving as Assistant Director for Operations for the Flight Operations Directorate.

Born October 10, 1962, in Redwood City, California, but considers San Carlos, California, his hometown. He is married with two children.

Graduated from San Carlos High School, San Carlos, California, in 1980; received a Bachelor of Science in Mechanical Engineering from the University of California, Berkeley in 1984, and a Master of Science in Industrial Engineering from the University of Houston in 1989.

Experience:

Walheim was commissioned as a second lieutenant in the Air Force in May 1984. In April 1985, he was assigned to Cavalier Air Force Station in Cavalier, North Dakota, where he worked as a missile warning operations crew commander. In October 1986, he was reassigned to the Johnson Space Center, Houston, Texas, where he worked as a mechanical systems Flight Controller and was the lead Operations Engineer for the space shuttle landing gear, brakes, and emergency runway barrier. He was selected for the Flight Test Engineer course at the Air Force Test Pilot School in 1991, and attended the course at Edwards Air Force Base, California, in 1992. In January 1996, Walheim became an instructor at the Air Force Test Pilot School, where he served until he commenced astronaut training.

NASA Experience:

Walheim served as a Flight Controller and Operations Engineer at the Johnson Space Center from October 1986 to January 1989. He was selected by NASA as an astronaut in March 1996, and reported to the Johnson Space Center in August 1996. After completing 2



years of training and evaluation, he qualified for flight assignment as a Mission Specialist. Walheim has been assigned technical duties in the Astronaut Office Space Station Operations branch, where he helped develop the initial procedures and displays used on the International Space Station. He served as CAPCOM in the Mission Control Center and was also the Chief of the spacewalking branch.

A veteran of three space flights, he has logged over 36 days in space, including more than 36 hours in five spacewalks. Walheim served on the spacewalk crew of both STS-110 in 2002 and STS-122 in 2008. Walheim was also a Mission Specialist on the crew of STS-135, a station cargo delivery mission, which was the final flight of the Space Shuttle Program. Subsequent to his flight, Walheim served as Chief of the Exploration branch of the Astronaut Office, where he worked as the astronaut representative to the Orion Program. Currently he is serving as Assistant Director for Operations for the Flight Operations Directorate.

Spaceflight Experience:

STS-110 (April 8 to April 19, 2002). This was the 13th shuttle mission to visit the International Space Station. Atlantis delivered the S0 (S-Zero) Truss, the first time the station robotic arm was used to maneuver spacewalkers around the station and the first time that all of a shuttle crew's spacewalks were based from the station's Quest Airlock. Walheim performed two spacewalks totaling 14 hours and 5 minutes. The crew mechanically attached and powered up the new truss and spent 1 week in joint operations with the station Expedition 4 crew. The mission duration was 10 days, 19 hours and 42 minutes.

STS-122 (February 7 to February 20, 2008). This was the 24th shuttle mission to visit the International Space Station. Atlantis delivered European Space Agency's (ESA's) Columbus Laboratory. Walheim performed three spacewalks to help prepare the Columbus Laboratory for its scientific work and to replace an expended nitrogen tank on the station P-1 Truss. STS-122 was also a crew replacement mission, delivering Expedition 16 Flight Engineer, ESA astronaut Léopold Eyharts, and returning home with Expedition 16 Flight Engineer, NASA astronaut Daniel Tani. The STS-122 mission was accomplished in 12 days, 18 hours, 21 minutes and 40 seconds, and traveled 5,296,832 statute miles in 203 Earth orbits.

STS-135 (July 8 to July 21, 2011). Atlantis carried the Raffaello MPLM to deliver supplies, logistics and spare parts to the International Space Station. The mission also flew a system to investigate the potential for robotically refueling existing spacecraft and returned a failed ammonia pump module to help NASA better understand the failure mechanism and improve pump designs for future systems. STS-135 was the 135th and final mission of NASA's Space Shuttle Program. The mission was accomplished in 200 orbits of the Earth, traveling 5,284,862 miles in 12 days, 18 hours, 27 minutes and 56 seconds.

<http://www.nasa.gov/astronauts/biographies/rex-j-walheim> <http://www.nasa.gov/astronauts>