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# EAA 663 NEWS

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Livermore, California

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## Membership Meetings

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### VMC / IMC Clubs

Dec 8<sup>th</sup> VMC

Dec 22<sup>th</sup> IMC

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### BUILDER BREAKFAST

Every Saturday

Old Mexico

1848 Portola Ave.

8:00 AM

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### Board Meeting:

Dec 15th BOD Meeting @  
Five Rivers - LVK

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### Chapter Meeting

December 1<sup>st</sup>, 2022

1st Thursday

Five Rivers

and ZOOM

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### Young Eagles Rally

Starting again in Spring  
2023!

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### Next Chapter Meeting

At Five Rivers Aviation and ZOOM  
7:00PM Thursday December 1, 2022

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Our December 1<sup>st</sup> chapter meeting will be held in-person at the Five Rivers Aviation Conference Room at 7pm and will feature a discussion about next year's chapter activity calendar and a selection of short how-to videos focusing on aircraft construction.

December's Fly-Out is scheduled for December 3 to Castle Airport in Merced, please visit the EAA 663 website for details and to sign up. *Be sure to sign up so you can be notified if plans change!!!*

See the pictures from November's Fly-Out to Half Moon Bay at the back of the newsletter.

**Updated Tool Location:** The tools are now located on the South side of the field Hanger 172. To check out tools please contact Johnny Neves, contact information can be found below in the chapter volunteer list.



EAA Chapter 663 June 3, 2021

## EAA Chapter 663 Volunteers

### **President:**

**John Youngblood**

925- 872-0350 [aqcs@comcast.net](mailto:aqcs@comcast.net)

### **Vice President:**

**Robyne Teslich**

925-548-4808 [nrtpublic@pa24.net](mailto:nrtpublic@pa24.net)

### **Treasurer:**

**Jan De Vocht**

925-699-7577 [jandevocht@sbcglobal.net](mailto:jandevocht@sbcglobal.net)

### **Secretary & Newsletter Editor:**

**Johnny Neves**

408-230-3093 [johnnynevesjr@gmail.com](mailto:johnnynevesjr@gmail.com)

### **Board Members:**

**Barry Weber**

925-963-0824 [bqweber@gmail.com](mailto:bqweber@gmail.com)

**Tom Irion**

510-773-8485 [tirion@comcast.net](mailto:tirion@comcast.net)

**Carlos Avalor**

925-373-8625 [mr.cavalle@gmail.com](mailto:mr.cavalle@gmail.com)

**Kurt Haller**

925-353-0485 [maidna@comcast.net](mailto:maidna@comcast.net)

**Edward Hefter**

925-915-8347 [edwardhefter@gmail.com](mailto:edwardhefter@gmail.com)

### **Counselors and Coordinators:**

**Bob Sinclair**

Chapter Tech Counselor 925-935-7465

**Barry Weber**

Chapter Flight Advisor & Technical Counselor  
925-963-0834

**Peter Friedman**

Chapter Flight Advisor & Technical Counselor  
925-818-6642

**Will Fares**

Fly-Out Coordinator 925-209-4527

**Johnny Neves or Keith Johns**

EAA 663 Tools

**Keith Johns**

EAA 663 Website 650-759-0199  
[keith@flycloudniner.com](mailto:keith@flycloudniner.com)

**Young Eagles Coordinators**

**Sophia Patel**

415-306-1776 [sophie\\_prpro@hotmail.com](mailto:sophie_prpro@hotmail.com)

**Eagle Flight Coordinator**

**Keith Johns**

650-759-0199 [keith@flycloudniner.com](mailto:keith@flycloudniner.com)





### President's Comments

Hello EAAers,

*Congratulations to Taris Keiper on his first solo flight!! As our very first Ray Flight Training Scholarship recipient, Taris is well on his way to becoming a Livermore aviator. Since Taris has already completed his ground school requirement, he expects to finish his Private License by early spring. Be sure to attend this week's chapter meeting and help us celebrate Taris' achievement.*

*Chapter 663 is planning our Annual Awards Banquet on Saturday evening, January 28, 2023 at the Clubhouse at Las Positas (Beeb's banquet room) at the Livermore Airport. All members and guests are welcome. We will have two speakers from JOBY Aviation scheduled to make a presentation on design, development, and operation of their eVTOL (Electric Vertical Take Off and Landing) Aerial Vehicle. With an approval from the Air Force, a Part 135 FAA Air Carrier Certificate, partnerships with Toyota, Uber Technologies, Delta Airlines, plus many others, JOBY is poised to become the first operational eVTOL airline. Be sure to make your reservations soon with our Treasurer (Jan DeVocht at (925) 699-7577) or through our web site on the CHAPTER EVENTS tab.*

*This month's chapter meeting will be held in-person at the Five Rivers Aviation Multipurpose Conference Room on December 1<sup>st</sup> at 7pm and will feature a discussion about next year's chapter activity calendar and a selection of short how-to videos focusing on aircraft construction. If unable to join us in person, please attend by using Zoom link:*

*<https://us02web.zoom.us/j/83613340012?pwd=aFN2WWtTRGJmVGhiRTNlV2N2U2pldz09>*

*Meeting ID: 836 1334 0012*

*Passcode: 3zLigY*

*See you there.*

*John Youngblood*



EAA Chapter 663 Livermore Club Photo June 3, 2021 - With Member Planes & Projects

## EAA Chapter 663 Livermore

GENERAL MEETING November 3, 2022  
AT FIVE RIVERS AVIATION

Chapter President John Youngblood welcomed our members and guests in person and online, for the November meeting at Five Rivers Aviation meeting room at KLVK. John was joined by officers: Jan De Vocht and Secretary Johnny Neves. John reviewed the regular announcements on VMC/IMC Clubs, the monthly Fly-Out, our Young Eagles and our Potluck/BBQ. John shared the monthly video from EAA. Our guest speakers, members Taris and Gia Keiper, gave a great presentation on 3D printing (see pictures that follow), covering how to design and prototype a part as well as the printing equipment and materials available. After that, many members of the club went to see member Yeol Grant's Sling TSi build in progress in his hangar (see pictures that follow for this, too).

**TREASURER'S REPORT:** During the November Board meeting Jan presented the current financial information. Balance = \$6,718, Total deposits of \$308, Expenses of \$413

**REMINDER TO PAY YOUR 2023 DUES - [CLICK HERE!](#)**

**Please visit our chapter website and take just a couple minutes to complete the member profile on the website - [CLICK HERE!](#)**

**POLO SHIRTS WITH EAA 663 LOGOS plus PATCHES:** First shirt is \$15 for members; all additional shirts are \$25. Two styles of patches, new and old, each of which is \$5.00. Ask Jan De Vocht.





We have completed all of our Young Eagles flights with the Patriots Jet Team Foundation and at Livermore for 2022. We will be developing and positing our 2023 schedule for the Spring.

For next year, we will continue to need PILOTS and GROUND SAFETY OFFICERS to help to continue our success. Members are welcome to join the yellow vest brigade for ground operations including ramp safety, photography, career guidance, study suggestions and mentorship. If you are interested in joining us please contact Sophia Patel (see volunteers page).

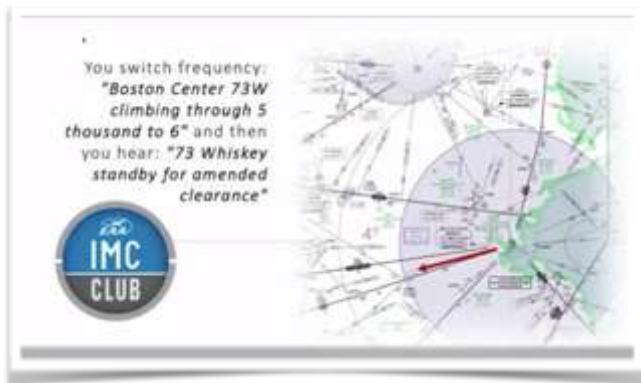
**We welcome all EAA members** prepared to talk with Young Eagles and their family to discuss flying as well as the benefits of learning valuable math, science, and thinking skills. We each know from experience that a small spark can lead to a lifetime of flying enjoyment. Contact Sophia Patel regarding the **Young Eagle Safety Check** procedure for adults that must be submitted 7-10 days prior to the event.

**BBQs:** All Potluck BBQ events will be on same day as Young Eagle rallies starting at 4pm.

**BUYING GIFTS? Use our unique link:** <https://smile.amazon.com/ch/84-4270204> to sign in to Amazon. After shopping, the ½% donation will be automatically allocated to Chapter 663 Livermore without any cost or other input on your part. This is a **great way to help support our EAA Chapter with no cost to us**. Jan De Vocht has set this up. Should you have questions drop him an e-mail. Tom is also seeking volunteers to work with the **Aviation Explorer Scouts**, a group that is open to youth regardless of gender.

Livermore  
April 16<sup>th</sup>  
May 14<sup>th</sup>  
June 11<sup>th</sup>  
Aug 13<sup>th</sup>  
Oct 8<sup>th</sup>

Byron  
March 26<sup>th</sup>  
Nov 5<sup>th</sup>



Keith Johns will lead the **IMC Club** through scenarios on December 22, 2022. There is significant value in learning to think through the situations regardless of one's flying skills or experience. You're free to join, listen to others and ask questions that improve your skills for safe flying.





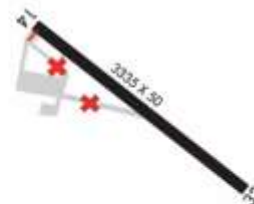
**VMC Club and IMC Club:** These free-to-member activities focus on improving flying skills and safety.

**VMC Club coordinator Andy McSunas**, a certified Advanced Ground Instructor (AGI) will meet the 2nd Thursday of every month at 7:00pm for VMC Club  
Email Andy McSunas: [ajmcsunas@me.com](mailto:ajmcsunas@me.com)

**IMC Club Coordinator Keith Johns**, CFII, Instrument ground Instructor will meet the 4th Thursday of every month at 7:00pm.  
Email to IMC Keith Johns: [keith@flycloudniner.com](mailto:keith@flycloudniner.com)

**Zoom links shared prior to the VMC/IMC Club meetings**

The only exit from the runway is a single narrow taxiway at the approach end of Runway 14 leading between some hangars to, and from, the FBO.



Your Flight

Andy McSunas will lead the **VMC Club** through a few scenarios on December 8, **Thursday**. You're free to join, listen to others, and ask questions that improve your understanding of safe flying. The VMC and IMC Clubs are free to join and welcome drop-ins. Due to previous COVID interruptions many of us are a bit rusty and could benefit from cycling the gray cells and exploring the envelope!



## Congrats to Ray Scholar Taris Keiper!!



## Pictures from Taris' and Gia's 3D printing presentation





## More pictures from Taris' and Gia's 3D printing presentation





## Pictures from Yeol's Sling TSi Build



## Pictures from Half Moon Bay Fly-Out







### Builder Tutorials

Trystan found these design tutorial references from Sonja Englert were informative:

- Tutorial 1 <https://youtu.be/NzMGNiY47IY> Introduction, wing, stall speed
- Tutorial 2 <https://youtu.be/6RTcCFIlm0k> Preliminary design spreadsheet, performance
- Tutorial 3 <https://youtu.be/6PAOrBe0tjQ> Fuselage, cg, W&B
- Tutorial 4 <https://youtu.be/WX4PsqikxBA> Fuselage mass distribution, cg calculation
- Tutorial 5 <https://youtu.be/qK2UxLwFMiE> Horizontal tail
- Tutorial 6 <https://youtu.be/6C0HS8CeiyU> Vertical tail
- Tutorial 7 <https://youtu.be/A9jCb6WIGks> Control surfaces elevator, rudder
- Tutorial 8 <https://youtu.be/2j6P4qXkAtk> Control surfaces aileron
- Tutorial 9 <https://youtu.be/70vIrs0JyO8> Flaps
- Tutorial 10 <https://youtu.be/4MK4PRStZtM> Wing planform, lift distribution, induced drag
- Tutorial 11 <https://youtu.be/mm0cXnXkiBI> Airfoil selection
- Tutorial 12 <https://youtu.be/5enLpAb7lq0> Aerodynamic center, MAC, longitudinal stability
- Tutorial 13 [https://youtu.be/shGXrv-zg\\_U](https://youtu.be/shGXrv-zg_U) Engine and propeller installation

### First Chapter BBQ of 2022!





## **EAA 663 Tools as of May 2021**

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. Brake riveter, hammer type.
8. Brake Riveter, Screw type.
9. Carbmate carburetor synchronizer (for Rotax mostly). This unit is intended for engines with twin carbs
10. Compression tester. Standard unit.
11. Crimping tool, heavy. For crimping heavy lugs such as used on battery cables
12. Drill Doctor. For sharpening drills, knives and scissors. Electric
13. Panel punch. Mechanical punch for aluminum panels in both standard sizes for round gauges.
14. 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.
15. Scale, crane. Hydraulic scale for use with a crane for measuring lifted weight.
16. Scales, electronic. With 4 scales, 4 rollup ramps, and a master control which will show the weight on each wheel. Has tare weight adjustment.
17. Spark Lead Tester, High Voltage leakage. Generates high voltage on spark leads to check to leakage.
18. Spark plug tester, pressure. Can check sparking under pressure. Needs separate compressor.
19. Borescope, articulating, for use with smartphone. The camera can be remotely bent around up to 180 degrees for a better look at engine internals
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.
26. Audible circuit tester - perfect for tracing wire ends during your avionics upgrade