

The Flying Ghost Writer



Where are we going in AE

The unit's plan of action exposed

Plan of Action for 2005

Each year, the Aerospace Education Officer is required to put together a plan of action. A plan of action is essentially a list of goals that the squadron wishes to achieve in the area of aerospace education. Below is our plan of action for 2005. Our plan of action is broken down into a number of areas to include our internal program and our external program. We encourage all of you to help the unit achieve our goals. We will use this newsletter you keep you abreast of our progress.

Aerospace Education – Internal Program

With our internal program, we have a couple of areas that we will be focusing on. One of these areas is on better information distribution. To achieve this goal we will by the completion of the first quarter of 2005, develop an AE newsletter to be distributed at least quarterly. With the creation of this newsletter, we have achieved this goal. Now we just need to keep it going. Also by the completion of the first quarter of 2005, the unit will have a dedicated Aerospace Education page on the squadron web site. The site will incorporate the already existing links and news articles. The site will also post PDF copies of this newsletter. Finally, in the area of information distribution, we will attempt to publish an article focusing on homeschooling and the Aerospace Education program.

Aerospace Education – Internal Program - Cadets

To support the cadets in Aerospace Education, we have collectively agreed on the following goals.

First of all, the unit has enrolled in and must complete the Aerospace Education Excellence (AEX) Program. This is an exceptional program that brings a lot of hands-on activities into the unit. Our focus or theme this year will be relating to rocketry. To see that it succeeds, cadets have pre-selected the activities relating to rocketry that also support the AEX program.

The unit will also be conducting a rocketry program for the cadets. The program is scheduled to be completed by 30 Aug 05 with the goal of at least 10 cadets earning their rocketry badges. Our one-day activity requirement for the AEX program will focus on launching rockets.

In order to pay for the rocketry program, we have submitted an application for the AEF grant. If the grant is approved, it will

help us purchase enough rockets and engines for each cadet in the unit.

Also during 2005, we have a goal to double the number of orientation flights given in 2004. In 2004, cadets received a total of fourteen flights, we would like to increase this to twenty-eight. We will need your support to make this happen.

Each year, the wing sponsors an Aerospace Education Display contest and the wing conference. We would like to provide an entry to this contest. Rules of the contest will be coming out soon.

Finally, we would like to see the AE examination scores increase by 5 percentage points by the end of 2005. We can do this by building a stronger AE program.

Aerospace Education – Internal Program - Seniors

For the senior member side of the house, we have equally ambitious goals. First of all, we would like to double the number of senior members who have earned the AEPSM Award by the end of 2005. By the end of 2004, eight of our members have earned the Yeager Award. This can be done through individual study or group workshops. The test can be taken online or in a group setting. One of our other goals is to conduct at least one AEPSM workshop.

One of the areas that we get graded heavily on is the number of Aerospace Education Officers that we have, or more specifically, the number of senior members progressing in the Aerospace Education study track. Therefore, one of our goals is to recruit and train at least two AEOs to the technician level by the end of 2005.

Finally, Lt Col Skrabut will attend the AEO School from July 21-23, 2005 at Pensacola NAS, FL.

Reports and Award Processing

In the area of reports and award processing, we would first like to turn in our end of the year annual report and AE periodic updates to the Group Aerospace Education Officer on time and completely.

More importantly, we would like to nominate and be awarded at least one flight scholarship for a deserving cadet. We are still working out the details for this.

Aerospace Education – External Program

Our external program requires the most work and will need to be closely managed. To start off with achievable goals, we are going to develop an information campaign for Middle Schools advising them of the Aerospace Education Member program. We are working to establish contact and a program in at least on local middle school before the close of 2005.

Finally, we will nominate at least one teacher for the A. Scott Crossfield Aerospace Education Teacher of the Year Award.

We certainly have a long list of activities to work on but they are all achievable with your help.

*Lt Col Stan Skrabut
Aerospace Education Officer*

AE Newsbrief from CAP NHQ

Please check out "The Latest News" on our website:

www.cap.gov/ae

* Educators !!! If you would like to participate in our on-line NCASE survey, go to http://level2.cap.gov/documents/NCASE_survey_rtf and email your results to Claudine Sayegh at Claudine.Sayegh@andrews.af.mil or fax them to her at (240) 857-5273

* New! Periodic Space Updates such as "Vomit Comet Makes Final Flight" will be regular feature on our home page

* NASA television schedule for November 2004

* Nov-Dec 2004 AE Newsletter

* AEO School for 2005 - place and dates

Under "Programs and Products" button:

* Update on Aerospace: Journey of Flight errata sheet

Under the "Partners" button:

* AGI (Analytical Graphics, Inc.) Also, check out our Space Module on-line and learn the basics of tracking satellites on STK (Satellite Tool Kit) at <http://www.cap.gov/ssm.html>

* Apogee Books

Special interest items:

* Learn about K-12 HP Technology for Teaching Grant Initiative at http://grants.hp.com/us/programs/tech_teaching/k12_main.html

* Reminder: The deadline for CAP Unit AEF grants is Dec. 31, 2004! For application form, go to http://level2.cap.gov/documents/u_061604142106.doc.

* Women in Aviation, International - 16th Annual International Women in Aviation Conference, "Achieving Individual and Industry Success through Strategic Alliances," will be held March 10-12, 2005, at the Adam's Mark Hotel in Dallas, Texas. For information: www.wai.org or (386) 226-7996.

We wish you the very best as you help promote aerospace education all across our great nation! We hope your holidays are safe and happy.

Judy A. Stone

Aerospace Education Program Manager
National Headquarters, Civil Air Patrol
105 S. Hansell St., Bldg. 714
Maxwell AFB, AL 36112-6332
(334) 953-7590
DSN: 493-7590
Fax: (334) 953-4235

Aerospace Education Program for Senior Members

Why wait for a workshop? You can complete the exam online at <https://tests.cap.af.mil/ops/tests/default.cfm?grp=ae>

One you have received your certificate, bring it to Lt Col Skrabut so that the Yeager Award can be ordered.

AEOs Needed

The unit needs senior members to be progressing in the Aerospace Education Specialty Track. You can do this specialty along side your normal specialty track. If you are interested, or wish to have more information, please contact Lt Col. Skrabut.

Module Schedule

We will be following the schedule below for Module review:

Jan – Feb: Module 4 – Rockets

Mar – Apr: Module 5 – Space Environment

May – June: Module 6 – Spacecraft

July – Aug: Module 1 – Introduction to Flight

Sep – Oct: Module 2 – Aircraft Systems and Airports

Nov – Dec: Module 3 – Air Environment

AEX Exercises

The following AEX activities were chosen by the cadets from the AEX II book.

Activity 20 – Pop Bottle Rockets

Activity 3 – Fizzy Flyer

Activity 5 – Junk Rockets

Activity 10 – Lost on the Moon

Activity 4 – Rocket Golf

Activity 14 – Build the TG-4A Glider/Sailplane

AE Mentors

Your AE Mentors are:

c/Maj Thomas Hasard

c/CMSgt James Bailey

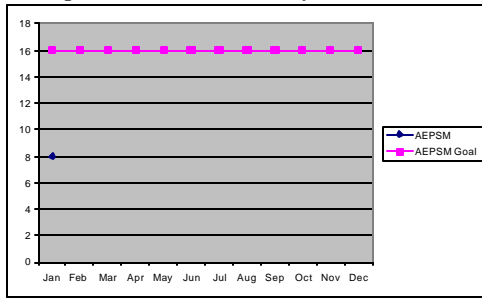
c/2Lt Adam Farley

c/2Lt Tim Hauenstein

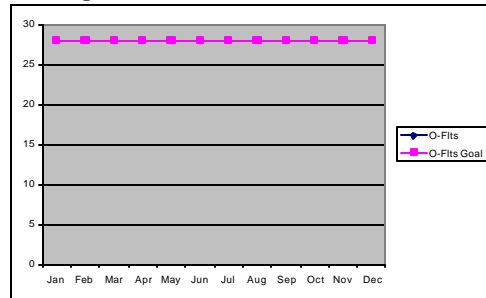
c/CMSgt Colin Ryan

Where do we stand in Aerospace Education?

These next couple of charts will show you where we stand in regards to Aerospace Education for 2005.



AEPMS

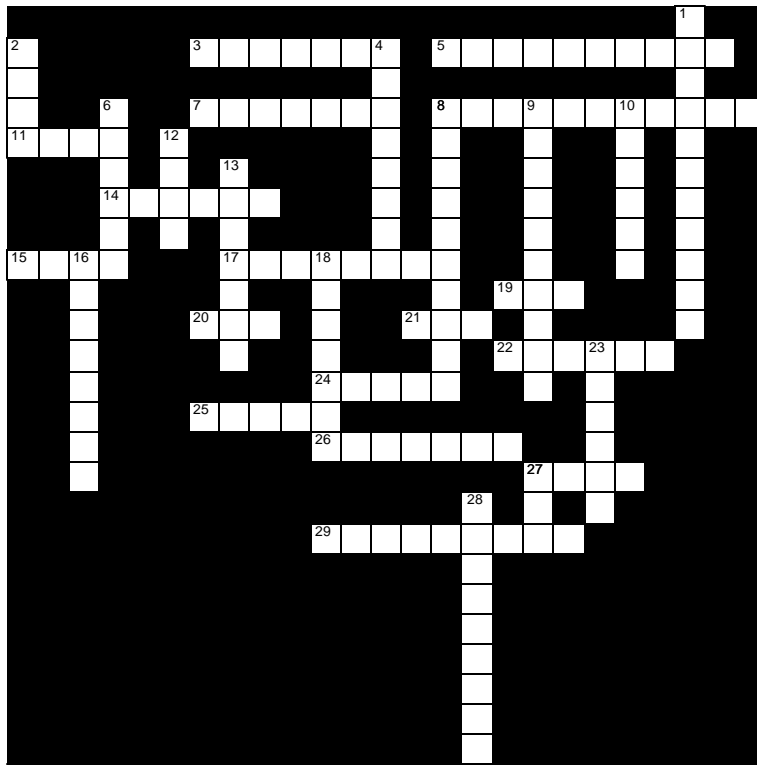


Orientation flights

Have Aerospace News?

Contact Lt Col Stan Skrabut at 315-781-8208 or E-mail sskrabut@rochester.rr.com

Newsletter - Nov 2004



Across

- 3. column of air that moves upwards
- 5. fluid motion between regions of unequal heating
- 7. place where aircraft can land or take off
- 8. art and science of creating maps
- 11. vertical panel that makes up balloon envelope
- 14. curved part of an airfoil
- 15. distance from wingtip to wingtip
- 17. devices that disrupt airflow

Down

- 19. Flight Service Station
- 20. air traffic control
- 21. intersection of two lines of positions
- 22. intended flight path
- 24. top of the hot air balloon's envelope
- 25. recurring series of events
- 26. "Newton lift"
- 27. chemical substance which is used as a source of energy
- 29. chart specifically designed for aviation use

Across

- 1. act of making a given volume of gas smaller
- 2. A force which retards forward movement
- 4. parallels
- 6. a tower-mounted, large rotating light
- 8. chemical process of burning
- 9. measures temperature within balloon envelope
- 10. dedicated pathway for taking off and landing
- 12. airport's parking lot

Down

- 13. mass in a given volume
- 16. height or distance above a reference plane
- 18. "Bernoullian lift"
- 23. term used to describe elevation
- 27. Federal Aviation Administration
- 28. meridians