



# AEO PICAYUNE



THE AEROSPACE EDUCATION DIRECTORATE'S NEWSLETTER

VOL. 2 | U.S. AIR FORCE AUXILIARY – CIVIL AIR PATROL – NORTH CENTRAL REGION – MISSOURI WING | NO. 05

## UPCOMING EVENTS

Start Date	End Date	Event	Location
14-Apr-15	14-Apr-15	Aviation Day At The Capitol	Jefferson City
18-Apr-15	18-Apr-15	Young Eagle and Pancake Breakfast	Lee's Summit
18-Apr-15	18-Apr-15	SportAir Workshops	Kansas City
9-May-15	9-May-15	Ballyho at 1BT	Bonne Terre
16-May-15	16-May-15	Young Eagle and Pancake Breakfast	Lee's Summit
23-May-15	24-May-15	Columbia Air Show	Columbia
29-May-15	30-May-15	Midwest Aviation Fun Days (STL Downtown AP)	Cañokia, IL
29-May-15	31-May-15	Aerospace STEM Academy	Ft Leonard Wood
27-Jun-15	28-Jun-15	Celebrate Neosho Airshow	Neosho
27-Jun-15	28-Jun-15	Cameron Air Show	Cameron
13-Jun-15	14-Jun-15	Wings Over Whiteman Airshow (Thunderbirds)	Whiteman AFB
20-Jun-15	20-Jun-15	Young Eagle and Pancake Breakfast	Lee's Summit
20-Jun-15	28-Jun-15	Missouri Wing Summer Encampment	Ft Leonard Wood
18-Jul-15	18-Jul-15	Amelia Earhart Festival	Atchison, KS
18-Jul-15	18-Jul-15	Young Eagle and Pancake Breakfast	Lee's Summit
20-Jul-15	26-Jul-15	EAA Air Venture Oshkosh 2015	Oshkosh, WI
1-Jul-15	8-Jul-15	Model & Remote Controlled Aircraft Academy	Salina, KS

### WINGS OVER WHITEMAN 2015

We are working with the local chapter of the Air Force Association (#299), Air Force Sergeants Association (#881), and the Project Officers to assist in various ways as well as space for an A/C static display and recruiting booth. 13-14 June.

### AVIATION DAY AT THE CAPITOL

Activities will start at 0800 on **14 April**. Arrival should be planned for NLT than 0730. We will be introduced in both chambers as well as making a special presentation on the House floor. POC is [Lt Col Randy Fuller](#), Legislative Squadron Commander. More information attached, to include a new agenda of events to last throughout the day.

### BALLYHOO AT 1BT

Bonne Terre Airport, 7444 Williams Ln, Bonne Terre, MO, is having an Open House "Ballyhoo" showcasing the Airport and local clubs/organizations. There will be Airplane & Helicopter Rides, Flight Simulators, Local Club & Organization Exhibits, Food Vendors; plus **raffles, games & prizes! FREE ADMISSION!** For more information, contact: (573) 454-1266, [info@bonneterreairport.com](mailto:info@bonneterreairport.com)

### SUMMER ENCAMPMENT

The 2015 Missouri Wing Encampment will be held at Fort Leonard Wood Missouri from June 20th through June 27th. The enrollment period opened Monday, 2 March 2015.

**\*DEADLINE TO APPLY IS FRIDAY, 5 JUNE 2015\***

### NAR SECTION #770

Current NRA Members are encouraged to join MO Wing's ASA section #770 and non-members are encouraged to join.

### ST LOUIS ROCKETRY ASSOCIATION

The St Louis Rocketry Association (SLRA), ASA's sister NAR Section, will be conducting monthly rocket launches at Buder Park in St Louis (NE of the intersection of I-44 and MO 141) on the Saturday following the 2nd Tuesday of the month until September. The reason for the odd recurrence is that the SLRA holds their meetings on the 2nd Tuesday of the month, and the launches will be the Saturday following their monthly meetings. There is a launch fee, but they haven't put it out for 2015, yet; so estimate about \$10 for the day. Spectators are always free. There will most likely also be several R/C flyers at Buder Park also for MARC enthusiasts.

### AEROSPACE STEM ACADEMY (ASA) NEWS

The next ASA will be 29-31 May 2015. We will be introducing the NARTREK SILVER Advance Model Rocketry Course as well as a Flight Simulator and Astronomy Tracks for Cadets who have soloed in MARC. *CAP Orientation Flights are also on tap!* **Flyer Attached**

### THE AEROSPACE SCIENCE AND TECHNOLOGY CENTER

The Aerospace Science and Technology Center (ASTC) Joplin Airport, old terminal building, 5509 N. Dennis Weaver Dr, Joplin, MO is a hands-on facility and features earth science, aerodynamics, and every aspect of aircraft subsystems such as life support, avionics, cockpits, antennas, electric, hydraulics, lights, structures, propulsion, external stores and more. Major displays include an actual ejection seat, avionics, an Israeli Kfir fighter cockpit, bombs, rockets, nine air-to-air missiles from around the world, a T-37 wing section, and the highlight - the B-143 Stimulator. For more information contact [Maj Ernie Trumbly](#).

### THE NINETY-NINES, INC. SCHOLARSHIP REGISTRY

The Ninety-Nines Scholarship Registry is a collection of scholarships offered by individuals, organizations, Chapters or Sections which will utilize one application and set of instructions. Applications are collected and forwarded to the appropriate parties offering the scholarships. The Ninety-Nines do not review or judge the applications.

### CYBERPATRIOT VIII REGISTRATION IS NOW OPEN

***\*NOW it is time to register for the 2015 CyberPatriot Competition!\**** There is NO COST to CAP Cadet Teams! This cyber defense program involves cutting-edge technology provided to our cadets, as well as excellent aerospace career exploration opportunities.

**Flyer Attached**

Please send updates or suggestions to: [ae@mowg.cap.gov](mailto:ae@mowg.cap.gov)



# CyberPatriot VIII



From: Director, Aerospace Education (DAE)

1 April 2015

## FOREWORD

Civil Air Patrol has been patrolling our nation's coastal borders since CAP's inception. Today, the coastlines are borderless with the onset of cyber vulnerability and attacks. CAP is participating in a timely technological initiative, CyberPatriot, sponsored by the Air Force Association, to educate the next generation of patriotic cyber defenders of our nation's security and infrastructure.

## PURPOSE

CyberPatriot is a cutting-edge activity open to ANY middle or high school student team in the nation. There are two parallel divisions: Open Division (any high school) and All Service Division (any CAP, Sea, or JROTC cadets). Each team defends a computer network against a virtual cyber-attack. Several rounds of competition culminate in a national competition for both divisions each March in National Harbor, MD, just outside Washington, D.C. All Division teams and Open Division teams can work and train together since they are not competing against each other in these parallel virtual competitions that lead up to the nation competition, so JOIN HANDS and TALENT and gather TEAMS to train together. Together Each Achieves More!

Adults who are coaching or mentoring a group of 2-5 young people in CyberPatriot teams are to be commended for going above and beyond! We encourage other interested adults to help form a team for 2016!

## CAP AE CYBER-SECURITY MODULE

The purpose of the [CAP AE CyberSecurity module](#) is to introduce current threats in Cyberspace and to provide some immediate activities for improving collective awareness and defense. A summary of careers in computer and network security is provided. This module also serves as a primer for those seeking to compete in the [CyberPatriot Program](#) sponsored by the [Air Force Association](#).

## CAP CYBERPATRIOT PAGE

[http://www.capmembers.com/aerospace\\_education/general/afa-cyberpatriot/](http://www.capmembers.com/aerospace_education/general/afa-cyberpatriot/)

## REGISTRATION IS NOW OPEN

\*NOW it is time to register for the 2016 CyberPatriot Competition!\*

This cyber defense program involves cutting-edge technology provided to our cadets, as well as excellent aerospace career exploration opportunities--- again, at no cost to the cadets or the squadrons. All directions for competition are provided, with assistance by tech-savvy CAP mentors or mentors from the IT industry located by the teams or by the CyberPatriot office. Help is available to each squadron- if a team is created and assistance is requested.

There is NO COST to CAP Cadet Teams! Find out all information at [www.uscyberpatriot.org](http://www.uscyberpatriot.org)

## INTERNET CONNECTIVITY

For those squadrons with limited internet connectivity, the AFA CyberPatriot office is offering the loan of three AT&T air cards per team by request.

## LIMITED COMPUTER SUPPORT

For those squadrons with limited computer support, the AFA CyberPatriot office is trying to help support those teams with computer loans.

## LIMITED ACCESS TO CYBER PROFESSIONALS

For those squadrons with limited access to adults with cyber expertise, the AFA CyberPatriot office will help assign a mentor to assist the squadron's team coach and cadets.

## FREE STEM PROGRAM

With this FREE STEM program for all CAP squadrons across the nation, squadron commanders and AE/CP leaders are strongly encouraged to at least register a small team of 2-5 cadets and one adult coach to facilitate the program. Whether the team moves to the national level or not, just the experience to provide the cadets with important cyber security career preparation experience is priceless.



**When: 29-31 May 2015**  
**Where: Ft. Leonard Wood**

## TRACKS

### Model Rocketry – Beginner \$35

Hands-On phases for Redstone and Titan stages of the CAP Model Rocketry Program.

### Model Rocketry – Intermediate \$45

Hands-On phases for the Titan and Saturn stages of the CAP Model Rocketry Program.

### Model Rocketry – Advanced Bronze - \$90

Advanced Rocketry training using the [NARTREK Rocket Skills Program](#). Cadets that have completed the CAP Model Rocketry Program may apply.

**Includes NAR Membership and NARTREK course Fee. Cadets already members of NAR may reduce price to \$65**

### Model Rocketry – Advanced Silver - \$65

Advanced Rocketry training using the [NARTREK Rocket Skills Program](#). Cadets that have completed Model Rocketry Advanced Bronze may apply.

### MARC track – Basic \$50

Cadets **MUST** have completed the CAP Model Rocketry Program and the Wright Brothers Achievement to attend.

- Balsa/foam model aircraft construction and test flights
- Real Flight Simulator computer program & hand-held controller
- Wings Aircraft and AeroLab productions
- Academy of Model Aeronautics (AMA) club will provide demonstrations and mentorship in learning to fly real remote-controlled airplanes.

**-Limited to 10 cadets**

### MARC track – Intermediate \$50

Cadets **MUST** have completed a ASA MARC Track Basic Course, first.

- Real Flight Simulator computer program & hand-held controller
- Construction and flight of Remote Controlled Aircraft
- Academy of Model Aeronautics (AMA) club will provide demonstrations and mentorship in learning to fly real remote-controlled airplanes.

**-Limited to 10 cadets**

### MARC track – Advanced \$50

Cadets **MUST** have completed a ASA MARC Track Intermediate Course, first.

- Construction and flight of complex Remote Controlled Aircraft
- Academy of Model Aeronautics (AMA) club will provide demonstrations and mentorship in learning to fly real remote-controlled airplanes.

**-Limited to 10 cadets**

### Astronomy track – \$30

Cadets **MUST** have completed the CAP Model Rocketry Program and the Wright Brothers Achievement to attend.

- Sun (daytime) and stargazing (nighttime) astronomy lessons and activities.

### Flight Simulator track – \$30

Cadets **MUST** have completed the CAP Model Rocketry Program and the Wright Brothers Achievement to attend.

- Comprised of a Microsoft X-gold flight simulator computer program with accompanying yoke and rudder pedals, cadets will learn and perform flight activities to include using flight planning aeronautical charts and lessons to extend the experiential portion of the flight simulator program.

**-Limited to 10 cadets**

### Staff \$20

Cadets that have completed the CAP Model Rocketry Program and the Wright Brothers Achievement may apply for Staff as well as Senior Members who've passed Level 1.

## ACCOMMODATIONS

Fort Leonard Wood has barracks and classroom space arranged. Attendees must bring their own linens (Sheet, Mattress sheet, and blanket and/or sleeping bag, pillow, etc.) **MSgt O'Neill will be preparing meals that will in itself, be well worth the trip!**

## UNIFORM WEAR

Any authorized uniform combination IAW CAPM 39-1 **MUST** be worn, but BDU's/Utility uniforms preferred.

## EXPECTATIONS

Training will be conducted in accordance with CAPR 50-20 *CAP Model Rocketry Program* and the *CAP Model Rocketry Program book*, to include building several models with differing fuel sources, then demonstrate their successful launch, flight, and recovery; and/or *CAP AEX MARC module*. Cadets who are between phases can complete partial tracks and their material fee will be reduced, accordingly. Please identify these cadets upon RSVP. Teams may **arrive after 1800 hrs on Friday to remain overnight. Sign in will begin at 0800 hrs Saturday**. Training will conclude at 1800 hrs on Saturday and reconvene at 0800 hrs on Sunday. Training will conclude and members will demobilize NLT 1600 hrs on Sunday.

**All tracks will have instruction in Robotics. CAP Orientation Flights are also planned.**

## PACKING LIST

See Attached. *Fee includes 2 Breakfasts, 2 Lunches, and 1 Dinner meal.*

## CADET SPECIFIC

- a. Cadets must hold and take their own medication. However, please identify medications to their responsible Senior Member, on the CAPF 163, and attached Medication Form.
- b. All members must have a CAPF 31 signed by their Unit Commander and cadets under the age of 18 their Parent/Guardian.
- c. There will be both male and female Senior Members RON on premises and genders will camp separately.
- d. Cadets will be assigned to Elements/Flights and may be placed into leadership positions commensurate with their rank.
- e. **Good order and disciplined will be maintained.** Horseplay and inappropriate behavior will not be tolerated. Squadron Commanders will be contacted and cadets will not be allowed to graduate for misbehavior and honor code violations. Please remember the core values.

## RSVP - RÉPONDEZ, S'IL VOUS PLAÎT

Please confirm intent to participate through your unit commander or deputy commander for cadets. In turn, unit points of contact please RSVP to [ae@mowgcap.org](mailto:ae@mowgcap.org) to ensure enough resources are available **NLT Thursday, 21 May 2015.**

## HOW TO PAY

Units paying for their members may do a draft back to Missouri Wing's Aerospace Education Activity account. Members can pay by cash or checks/money orders drafted to: "Missouri Wing Civil Air Patrol."

## PREREQUISITES

- Senior members **MUST** have completed Level I
- Cadets **MUST** have completed their **CURRY** Achievement
- Safety All members must be safety current through 31 May 2015 in the Safety Management System (SMS).
- Approval must have your Squadron Commander's approval to attend. This will be demonstrated by a CAPF 31 signed by the Squadron Commander or Deputy.

*Show Me Excellence!*

## Aerospace STEM Academy Packing List

UNIFORM ITEMS	QTY	REMARKS
BDU pants	1	
BDU blouse	1	With all insignia
BDU Cover	1	With insignia for officers
Belt (blue webbing with black buckle)	1	
BDU boots	1	
Socks, black	2 pr	
T-shirt, black	2	Crew style, no pocket
<b>PT UNIFORM</b>		
Shorts, blue or black	1	Clean, conservative, not too short
T-shirt, black	1	In addition to above
Sweat pants, running pants, etc	1	Blue or black, conservative
Sweatshirt	1	
Socks, white	2pr	
Shoes, running	1pr	
<b>PERSONAL ITEMS</b>		
Light Winter Coat	1	Bring uniform coat (s) if available; otherwise conservative civilian coat is acceptable
Gloves	1 pr	
Underwear	3	
Bras (female cadets)	1	Sports bra recommended
Sleeping Bag or Sheet, Mattress cover, and blanket	1	
Pillow with case	1	
Soap and Shampoo		
Toothbrush and toothpaste		
Deodorant		
Washcloth and towel, shower shoes		Flip flops acceptable
Shaving Cream & Razor (in holder)		If necessary
Clothes Hangar	3	
Feminine Hygiene Products(female cadets)		If necessary
Shoe Polish Kit	1	
CAP notebook, pens or pencils		
Drinks with lids		
Snacks		
<b>PROHIBITED ITEMS</b>		
Weapons of any kind (Knives)		
Alcoholic Beverages		
Illegal Drugs		
Tobacco Products		
Explosives		
Matches/Lighters		

**APPLICATION FOR CAP ENCAMPMENT OR SPECIAL ACTIVITY**

<b>Name (Last, First, Middle Initial)</b>		<b>CAPID</b>	<b>CAP Grade</b>	<b>Gender</b>	
<b>Member Type</b>	<b>Charter No. (e.g. GLR-MI-059)</b>	<b>Grade in School</b>	<b>Religious Preference</b>		
<b>Address (Include No., Street, City, State and Zip Code)</b>		<b>Home Phone Number</b>	<b>Cell Phone Number</b>		
		<b>E-Mail Address</b>			
<b>Date of Birth (mm/dd/yy)</b>	<b>Shirt Size</b>	<b>Height (Inches)</b>	<b>Weight (Lbs)</b>	<b>Hair Color</b>	<b>Eye Color</b>
<b>Title of Activity</b> ASA		<b>Location of Activity</b> Ft Leonard Wood, MO	<b>Activity Dates</b> 29-31 May 2015		
<b>Staff Position(s) Sought</b> Track:					
<b>Emergency Contact Information</b>					
<b>(Primary Contact) Name (Last, First, Middle Initial)</b>		<b>Relationship</b>		<b>Primary Phone Number</b>	
<b>(Secondary Contact) Name (Last, First, Middle Initial)</b>		<b>Relationship</b>		<b>Primary Phone Number</b>	

**RELEASE AGREEMENT**

KNOW ALL MEN BY THESE PRESENTS that I am submitting my application for Civil Air Patrol Special Activities or Encampments, and I hereby volunteer entirely upon my own initiative, risk, and responsibility for an assignment to participate in this activity of encampment at the first available opportunity and with full knowledge that such activity may include:

1. Traveling by land, sea, or air in US military, commercial, or privately owned vehicles from regular place or residence to the site of the activity or encampment, travel incident to the activity or encampment, and subsequent return to place of residence.
2. Participation in aeronautical activities as a passenger or student trainee in US military, commercial, or privately owned aircraft.
3. Living for a period of one week or more on diminished rations and minimal shelter simulating actual survival conditions.
4. Being quartered and/or subsisting away from regular or normal place of residence for an extended period of time.
5. Remaining with the cadet group I am assigned to at all times during the activity or encampment.
6. Acting as a spokesman for Civil Air Patrol, rendering reports on the activity or encampment.
7. Refraining from argumentative discussions concerning governmental policies.

In consideration of the permission extended to me by the Civil Air Patrol/United States of America through its officers and agents to participate in said activity/encampment or activities/encampments, I do hereby for myself, my heirs, executors, and administrators release and forever discharge the Civil Air Patrol, Inc./United States of America, and all its officers, agents, and employees acting official or otherwise, from any and all claims, demands, actions, or causes of action, on account of my death or on account of any injury to me or my property which may occur as a result of the negligence of the Civil Air Patrol/United States of America, its agents or employees during said activity/encampment or activities/encampments or continuances thereof, as well as all ground and flight operations incident thereto.

\_\_\_\_\_ Date

\_\_\_\_\_ Signature of Applicant

(Continued on reverse)

<b>Name (Last, First, Middle Initial)</b>	<b>Title of Activity</b> ASA
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**RELEASE BY PARENTS OR GUARDIAN**

KNOW ALL MEN BY THESE PRESENTS: WHEREBY my child has applied for the activity or encampment referred to above, In consideration of the permission extended to my child by the Civil Air Patrol/United States of America through its officers and agents to participate in said activity/encampment or activities/encampments, I do hereby for myself, my heirs, executors, and administrators release and forever discharge the Civil Air Patrol, Inc./United States of America, and all its officers, agents and employees acting official or otherwise, from any and all claims, demands, actions or causes of action, on account of the death or on account of any injury to my child which may occur as a result of the negligence of the Civil Air Patrol/United States of America, its agents or employees during said activity/encampment or activities/encampments or continuances thereof, as well as all ground and flight operations incident thereto. In addition, by my signature below, I certify the applicant:

1. Is my minor child or ward.
2. Has no history or injury or disease which might be affected by this activity except those previously noted in the Medical Information section of this form.
3. Will follow all rules, regulations, and directives as established by the Civil Air Patrol, Inc., activity project officer or encampment commander, or other staff members. If not following the above mentioned rules, regulations, and directives he/she may be sent home at the discretion of the project officer, encampment commander or activity directory at my expense.

However, in case of injury, disease or other illness, permission is hereby granted to treat the applicant as required, and if the applicant is released from the activity before recovery from said injury, disease, or illness, further treatment will be provided by myself.

_____	_____	_____
Date	Witness for Father's Signature	Father or Legal Guardian
_____		_____
Witness for Mother's Signature		Mother or Legal Guardian

**Squadron Certification.** (Squadron Commander's signature is not necessary if the activity is approved in eServices or if it is a squadron activity.)

I certify that the above information is correct and that all requirements for attendance, as specified in National Headquarters Directives, will be completed by the required dates.

_____	_____
Date	Squadron Commander

**Group Certification.** (Group Commander's signature is not necessary if the activity is approved in eServices or if the activity is held within the group.)

_____	_____
Date	Group Commander (or designee)

**Wing Certification.** (Wing Commander's signature is not necessary if the activity is approved in eServices or if the activity is held within the wing.)

_____	_____
Date	Wing Commander (or designee)

**PERMISSION FOR PROVISION OF MINOR CADET OVER-THE-COUNTER MEDICATION**

This form may not be usable in some states due to statutes concerning who can administer medications and administration conditions. Wings with such restrictions will publish appropriate additional guidance in a supplement to CAPR 160-1.

<b>Name</b> ( <i>Last, First, Middle</i> )	<b>Grade</b>	<b>CAPID</b>	<b>Charter Number</b>
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**Over-The Counter/Non-Prescription Medications**

The following over-the counter medications may be administered according to package directions by CAP senior members. Cross out any medications not approved.

Acetaminophen (Tylenol) for fever or pain	Visine eye drops for dry, irritated eye relief
Ibuprofen (Advil, Motrin) for fever or pain	Op-Con A eye drops for allergic conjunctivitis
Bacitracin or Neosporin antibiotic ointment to prevent infection	Benadryl liquid/tabs for allergic reactions
Hydrocortisone anti-inflammatory rash cream	Claritin antihistamine for seasonal allergies
Calamine/Caladryl for poison ivy itch relief	Robitussin products for relief of cough and cold symptoms
Antifungal creams and sprays for treatment of fungal rashes	Delsym to suppress cough
	Tums or Maalox for relief of stomach upset

**Allergies**

My child/ward has the following allergies or reactions to over-the-counter medications (list type of reaction):

**Consent For Minor Cadet To Receive Over-The-Counter Medications**

My signature below evidences my consent for CAP senior members to provide over-the-counter non-prescription medications (such as those listed above) to my child/ward if indicated in the reasonable judgment of such senior members. I understand that I will be informed if any such medications are administered.

<b>Date</b>	<b>Signature of Parent/Guardian</b>
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