



Aerospace Education

Winter 2012

News

Inspiring Students To Excel

We hope the New Year will bring prosperity and happiness to you and your family.
--AE Team

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Aerospace Education News
Aerospace Education News is the official aerospace education quarterly publication of the Civil Air Patrol at CAP National Headquarters, Maxwell Air Force Base, Ala.

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If you have news, events, or ideas we might consider for the newsletter, please submit them electronically to jstone@capnhq.gov.

CAP Continues Service

Civil Air Patrol (CAP) was formed by a group of civilian volunteers, many of them pilots of single-engine aircraft, who took it upon themselves during the early days of World War II to patrol the nation's coastal waters to chase away enemy submarines. CAP later became the official auxiliary of the U.S. Air Force.

As CAP celebrated its 70th anniversary on December 1, 2011, many events throughout the nation signified this date. CAP had units around the country hold ceremonies to commemorate the anniversary. At CAP National Headquarters, two members of the AL WG who were members in the early days were honored. And, both individuals are members of CAP today! Lt Col Wendall Haas was an airplane and engine mechanic, helping repair aircraft as needed in CAP's early days. Today, at age 88, Lt Col Haas is still an active member. Lt Col Otha Vaughan, Jr. joined CAP as a 15-year-old cadet in 1944, and, today, one of his duties is Aerospace Education Officer for the Huntsville Senior Squadron.

Today's CAP is a world-class, all-volunteer public service organization with more than 61,000 members with ages ranging from 12 to indefinite adulthood. CAP is charged by Congress with three primary missions - Aerospace Education, Cadet Programs, and Emergency Services. These three missions have been carried out in a passionate and professional way by the members responsible for each mission. CAP gives back to each community where its members are present. CAP looks forward to the future and increasing its commitment to national security, search and rescue, and aerospace education for the citizens of this country.



Lt Col Otha Vaughan

Questions:

1. When did CAP begin?
2. What is the oldest a person can be and still be a member of CAP?
3. What are the three missions of CAP?



Aerospace Education Member (AEM) Spotlight ...

Tracy Huemoeller, AZ

Anthem School in Anthem, Arizona, has developed an aerospace program for their students that is “out of this world.” The person responsible for taking the initiative and coordinating this program is 3rd grade teacher, Tracy Huemoeller. Tracy is organized and ever-willing to go the extra mile to help her school achieve greatness and inspire the students to excel in subjects they may not have considered, such as science, technology, engineering, and math.



Anthem students at ACE 2010 liftoff

Using the Civil Air Patrol’s K-6 Aerospace Connections in Education (ACE) program, Tracy has not only broadened the horizons of her students, but also brought the world of aerospace to her school and community. Tracy has had many experiences and opportunities as part of the CAP ACE program. One of those opportunities was to participate in the Teacher Orientation Program (TOP) flights offered to CAP educator members. Even though Tracy

had flown in commercial airplanes before, this was a unique, up close, and personal experience in a single engine, light airplane which inspired her dream of flying lessons.

Tracy was born at Fort Campbell, Kentucky and grew up in Clarksville, Tennessee. Her dad and husband are both former Army paratroopers. Tracy worked in the corporate world prior to becoming a teacher. She decided that she wanted to give something back to the community after the 9/11 attacks, so she went back to school to get her teaching degree. After teaching three years in Tennessee, Tracy moved to Arizona and is currently teaching at Anthem. Tracy focuses her attention on aerospace and STEM subjects to spark her students’ interests and help them develop their abilities and talents.

Tracy’s school decided to pursue a STEM focus with their primary concentration being aerospace. That focus caused the school leaders to search NASA websites where they found an article about CAP and the ACE program. The school then contacted Maj Phil Hubacek of the Arizona Wing and he came to the school and presented CAP materials. They immediately realized this was the program they had been looking for due to its innovative curriculum and cost effectiveness. Maj Hubacek, working with Tracy and Anthem School, is credited with giving the school the assistance it needed to win the CAP National ACE School of the

“Maj Phil Hubacek’s guidance and support have helped make our program a success.”

---Tracy Huemoeller



Year award in their first year of membership. This program success is just one example of how CAP’s Senior volunteer members can help promote and support AE initiatives in their communities.



CAP AE Officers, Maj Phil Hubacek and Lt Col Pete Feltz, join Tracy Huemoeller and several Anthem students for the 2011-2012 ACE Lift-off event

Tracy and Anthem School are to be congratulated for their commitment to the continued success and enrichment of their students and the possible future role these students will make in the aerospace world. Thank you, Tracy, for having a dream and passing it on!



Tracy receiving 2011 National ACE School Award with Anthem Principal, Mr. Pat Yennie



Aerospace Education Officer (AEO) Spotlight.....

Maj Stephen Rocketto, CT WG Director of Aerospace Education

Maj Stephen Rocketto is not only a master aerospace education officer for Civil Air Patrol, but also a master teacher in the education system. His engaging style and technique brings to students not simply an instructor, but a mentor, as well. His vast knowledge and life experiences make his classroom and squadron meeting place exciting and interesting.

Maj Rocketto has been an educator for 30 years, teaching physics, philosophy, and earth sciences. After one of his students, Eric Nelson, recruited him into CAP, Maj Rocketto has provided the Thames River Composite Squadron, as well as CT WG, his talents and enthusiasm for the past six years. Maj Rocketto is an avid promoter of the history and science of aerospace.

Being an aviation and space enthusiast since childhood, Maj Rocketto has gone from Boy Scout aviation badge to getting his pilot's license before his driver's license. He now holds a FAA commercial certificate for airplane single and multi-engine, as well as an advanced ground instructor rating. He is also licensed to fly in Peru, Chile, and Australia. The FAA presented him with the Wright Brothers Master Pilot Award for his fifty-year flying career.



Maj Rocketto with CAP airplane

During the 1960s and 1970s, Maj Rocketto worked for the Smithsonian Astrophysical Observatory on astronomy-related projects. After his Smithsonian experience, he went on to graduate school at Connecticut College and was also a charter pilot for a short time.

As an educator, Maj Rocketto led his students to develop a weather satellite downlink system which turned into the formation of several successful companies. Maj Rocketto was awarded the National Science Foundation's Presidential Award for Excellence in Science and Mathematics Teaching and has been recognized by the American Institute of Aeronautics and Astronautics, as well as NASA.



Maj Rocketto assists Cadet Barbara Pacquin in parachute folding for a model rocket.

*"My primary interest is promoting youth interest in aviation."
-Maj Stephen Rocketto*



Maj Rocketto's major interest is in promoting youth interest in aviation. He has organized week-long wing field trips to Washington and regional aviation museums, runs an annual wing rocketry competition, and conducts aerospace workshops. Maj Rocketto has presented at both CAP National Aerospace Education Officer School and CAP National Board and Conference.



Cadets Brendan Schultz, Andrew Cathcart, and Timothy Chartier study the intricacies of a radiosonde (a small box-like instrument that is carried into the upper atmosphere by balloon to transmit meteorological measurements).

Maj Rocketto's accomplishments do not stop at instructing and inspiring, but he also authors two newsletters for CAP. His squadron newsletter is called *The Coastwatcher* and the Connecticut Wing newsletter is called the *Daedalean*. Both of these publications share not only what is happening in the squadron and wing, but also gives historical and current events for the cadets and members of CT wing. Maj Rocketto is one of CAP's hidden treasures that makes a difference in the lives of his cadets and the students in his community. We wish him the best as he continues to use the gifts he has to prepare the next generation for the exciting world of aviation and space!



K-6 Aerospace Connections in Education (ACE) Program - Liftoff 2011-2012

With almost 18,000 students and 700 educators at 92 schools across 27 states, participation in CAP's K-6 Aerospace Connections in Education (ACE) Program has grown approximately 40% from last year. CAP is honored to have continued local and national support for the ACE Program from a variety of companies and organizations, such as the **Air Force Association (AFA)**, **FLIR Systems, Inc.**, **Sertifi**, and the **Prattville Rotary Club**. Additionally, CAP was honored to receive a \$10,000 grant from **Lightspeed Aviation Foundation**. Thanks to the generosity of these companies and organizations, more students were able to experience the ACE Program.

Many ACE schools across the country organized a special event to "lift off" the start of the ACE Program. **Anthem School, the 2011 National ACE School of the Year from Anthem, AZ**, kicked off their second year in the ACE Program with another exciting aerospace school challenge. The school principal, Mr. Pat Yennie, worked alongside ACE Coordinator, teacher Tracy Huemoeller, to help students research and design parachutes. The fire department's bucket truck joined in for a 100-foot parachute drop competition.



Mr. Yennie drops student parachutes from fire truck bucket



Excited ACE students from Wrights Mill Road Elementary in Auburn, AL

At **Antioch Elementary School in Crestview, FL**, students were met with the surprise of their local Gulf Flight 1 medical helicopter landing on their sports field. Laura Pink, Antioch's ACE coordinator, explained that it took a lot of people to coordinate the effort and to keep it a secret from the students. A local reporter wrote, "After several tantalizing passes over the school, generating frenzied cheers and waves from faculty and students alike, the arrival of the helicopter officially launched the school's ACE program."



Antioch students watch helicopter...Credit: Brian Hughes / Crestview (FL) News Bulletin

Kemmerer Elementary School in Diamondville, Wyoming, also launched its ACE Program with fun activities. Students participated in an activity to learn about helicopters, engaged in a paper airplane competi-

tion to learn about flight, and watched a presentation about the history of flight. Two CAP senior members, Maj Dorothy Christensen and Capt Edward Felleson, were on hand to assist with the liftoff event. In a follow-up ACE liftoff event, a Chinook helicopter performed a three-round fly-over at the school, continuing the ACE program excitement.



Kemmerer students working with CAP members on airplane activities

In a partnership initiative, the AFA joined CAP to support the **2011-2012 National ACE Liftoff event at Ridgewood Park Elementary School in Orlando, FL**. The over 800 students, faculty, and guests were honored to have as the Grand Marshal and speaker, retired U.S. Air Force Col Joseph Kittinger, who holds the record in scientific human endurance experimentation for having the highest, fastest, and longest skydive from a parachute at more than 102,000 feet. (He also was the first man to make a crossing of the Atlantic Ocean in a gas balloon.)



Retired USAF Col Joe Kittinger at Ridgewood Park Elementary School National ACE Liftoff event

(Continued on page 5)



CAP AND AMA - WORKING TOGETHER FOR YOUTH

The Civil Air Patrol and the Academy of Model Aeronautics (AMA) are working together to foster an appreciation for aviation and flying to young people via model aircraft. This partnership includes free membership in AMA for CAP youth up to age 19. Each individual club in AMA also offers free or greatly reduced club memberships for cadets of CAP. Each club offers years of experienced members who love aviation and can share their skills in remote-controlled aircraft with the youth in their club and community.

AMA clubs can sponsor TAG

events. A TAG (Takeoff and Grow) event occurs when a CAP unit and an AMA Charter Club work together to build a mutual flying model aircraft program within a CAP unit. AMA Clubs provide expertise in RC flying and instruction, and, have access to AMA TAG support (buddy boxes, fuel, membership applications, etc.) for the CAP cadets. These events are coordinated between the unit AEO and the local AMA club. To find the location of an AMA club near a CAP squadron, go to <https://www.modelaircraft.org/>. To get more information on TAG events or the CAP and AMA partnership, contact CAP Volunteer and AMA HQ / Education Outreach Specialist, Lt Col Randall Carlson, at randallcarlson_2000@yahoo.com.



California CAP cadets, senior members, and AMA club members join together for a TAG event

IMPORTANT!!! CAP AEM Renewal Information

When your Civil Air Patrol Aerospace Education Membership expiration date approaches, you will receive an email 60 days before expiration with easy guidelines on how to receive a FREE renewal! You will be asked to identify CAP AE product(s) or program(s) you plan on utilizing during your next year of membership as an in-kind request in return for receiving the complimentary membership renewal.

If you do not receive a renewal e-mail, you can always contact ae@capnhq.gov for assistance. Please use that e-mail address to provide us information about any exciting programs you are doing or suggestions for program improvement. Also helpful is to provide updated mailing address, phone number, e-mail address, or teaching/working location.

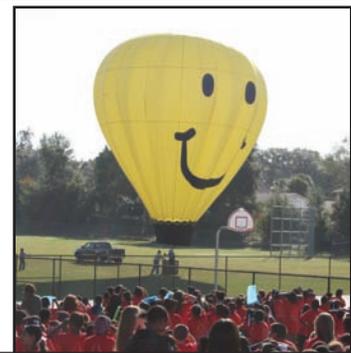


(Continued from page 4)

Fitting for the occasion, balloonist Kip Pringle inflated his yellow happy-faced hot air balloon as a backdrop in a field adjacent to the school. The ACE Coordinator, nationally-renowned aerospace educator Barbara Walters-Phillips, is an Orange County Science Specialist, a CAP AE Member, and a Central Florida AFA chapter member. Most recently, Barbara was the recipient of the AFA's National Medal of Merit for her outreach initiatives to promote AE across the nation. Barbara coordinated the event with CAP, the AFA, school assistant principal, Vanessa

Morrow, and the community. "We are proud to be able to provide our students with quality enrichment opportunities that will involve community support from CAP, the AFA, and business and industry in our area." Ridgewood Park Principal Jerome Thompson said, "These positive role models will help our students realize the benefits of a good education and hard work for their futures."

To learn more about this grade-specific, cross-curricular, aerospace-themed K-6 program that promotes STEM interest, as well as good character and physical fitness, go to www.capmembers.com/ace.



Hot air balloon at Orlando, FL Ridgewood Park Elementary School's National ACE Liftoff event



CURRICULUM CORNER.....GRADES K-4

CREATE YOUR OWN LOGO....

Objective: Students will learn about logos, especially CAP's, and design their own.

National English Language Arts Standards:

- 5. Communication Skills
- 12. Applying Language Skills

National Visual Arts Standards:

- 3. Choosing and evaluating a range of subject matter, symbols, and ideas.
- 4. Understanding the visual arts in relation to history and culture.
- 5. Reflecting upon and assessing the characteristics and merits of their work and the work of others.
- 6. Making connections between visual arts and other disciplines.

National Social Studies Standards:

- 1. Culture
- 2. Time, Continuity, and Change
- 3. People, Places, and Environment
- 4. Individual Development and Identity
- 5. Individuals, Groups, and Institutions

Grade Level(s): K-4

Background Information:

A logo is a picture of words or symbols that represents a company, product, or idea. There are many logos that are readily recognizable by children, such as the McDonald's or Disney logos.

CAP's logo or insignia illustrates its original connection with Civil Defense (via Gill Robb Wilson to New York Mayor Fiorello La Guardia, who was the national Civil Defense chief, to the Roosevelt administration). The standard



CD insignia or logo (blue circle, white triangle) was modified with symbols for scores of functions....air raid wardens,

ground spotters, etc. For CAP, a red propeller appeared inside the triangle. The three-bladed prop stands for the three missions of CAP - Aerospace Education, Cadet Programs, and Emergency Services.



Famous logos, such as:
Top left - Burger King;
Top right - Coca Cola
Middle - McDonalds
Bottom left - Walt Disney
Bottom right - Nike

Materials:

- Background of logo definition and examples that are easily identifiable
- paper
- pencil
- crayons, markers, or colored pencils

Procedure:

1. Discuss with students what a logo is and give an example or two. Then ask the students to give examples with which they are familiar.
2. Discuss Civil Air Patrol's history and how the CAP logo was derived.
3. Ask students to think about what makes them special and the talents and characteristics that make them unique.

4. Tell students they will design a logo for themselves that reflects something about them. Have the students use art supplies to make several drawings and then choose the one that best represents them to make into a poster to share with the class.

Summary:

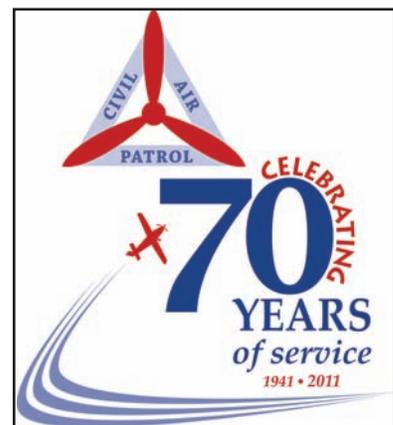
Logos represent a company, product, or idea. They are easily recognizable graphics and/or words that help people remember that company, product, or idea.

Evaluation:

Use a rubric to assess students based on creativity and best use of graphics and words.

Extension:

1. The teacher can make an outline of a spaceship and have students incorporate their logos onto the outside of the ship for some future mission to Mars.
2. Students can make up a commercial to present to the class using their logo to sell some skill they have to their classmates (ex. artistic skills, mathematical skills, problem-solving skills, etc.).





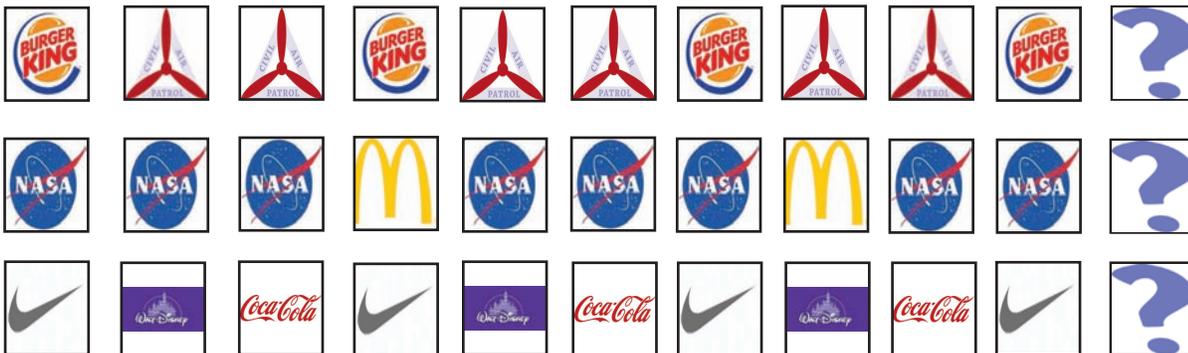
Logo Student Sheet

NAME: _____

Create a logo about you. Think of something you are good at and put that idea in your logo. See if your classmates can guess who this logo represents.



Logo Patterns: What is the next logo in each pattern?





CURRICULUM CORNER.....GRADES 5-12

DRAW A COMIC STRIP.....

Objective: Students will learn how cartoons can give a message and learn the history behind the Smilin' Jack cartoonist in connection with CAP.

National English Language Arts Standards:

- 2. Understanding the human experience
- 4. Communication Skills
- 5. Communication Strategies
- 12. Applying Language Skills

National Social Studies Standards:

- 2. Time, Continuity, and Change
- 5. Individuals, Groups, and Institutions
- 10. Civil Ideals and Practices

Grade Level: 5-12

Background Information:

Zach Mosley was an American comic strip artist best known for the aviation adventures in his long-running *The Adventures of Smilin' Jack* which ran in more than 300 newspapers from 1933 to 1973. The *Smilin' Jack* comic strip was the longest running aviation comic strip, lasting 40 years. Zack Mosley became a pilot for Civil Air Patrol after moving to Lake Worth, Florida in 1939. He owned nine airplanes and flew anti-submarine flights during World War II starting in 1941. On September 18, 1976, he was inducted into the Civil Air Patrol Hall of Honor. The *Smilin' Jack* comic strip not only captured the romance and adventure of early flying, but it also sent a message about how Civil Air Patrol was accomplishing missions for homeland security. Zach Mosley also created posters and other artwork for CAP while a member. He passed away at the age of 87 on December 21, 1993.

Materials:

- Background information on Zach Mosley and the concept of cartooning
- Art medium such as paper or sentence strips, markers, crayons, pencils, etc.
- Samples of cartoons that relay positive messages

Procedure:

1. Discuss CAP and the World War II comic strips, especially *Smilin' Jack*. More background information can be found for this subject in the CAP *Volunteer* magazine online at http://www.capvolunteernow.com/media/cms/Volunteer_AugOct_mag_LR_rev_F5C61F1BC780D.pdf on pages 4-6.

2. Have students create a comic strip that sends a positive message to classmates. The comic strip might discourage drug use, alcohol abuse, bullying, preparing for the future, service to community, etc.

3. Have students share their comic strips with the class and make the collection into a book format for sharing with other students.

Summary:

Comic strips can be used to explain a difficult subject by combining pictures and words.

Evaluation:

A rubric may be used to assess the comic strips with such considerations as creativity, success of relaying message, and visual appeal.

Extension:

There are several websites to explore comic strip creation:

- 1. Website for creating comic strips - <http://www.readwritethink.org/classroom-resources/student->

[interactives/comic-creator-30021.html?tab=5#tabs](http://www.interactives/comic-creator-30021.html?tab=5#tabs)

2. Super comic creator - <http://www.tvokids.com/games/supercomiccreator>

3. Comics for kids - http://kidscomiccon.com/?page_id=305

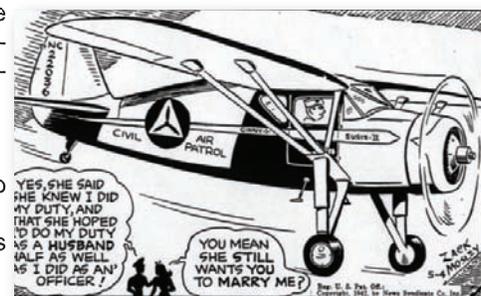
4. Steps in writing a comic strip - <http://www.wikihow.com/Write-a-Funny-Comic-Strip>

5. Lessons for language development and other language arts skills relating to comic strips -

<http://www.teachingenglish.org.uk/language-assistant/teaching-tips/using-cartoons-comic-strips>



Top: Artist and creator of *Smilin' Jack* comic strip, Zach Mosley
Bottom: Sample CAP comic strip





Curriculum Corner (Grades 5-12) continued....

Student Worksheet for Draw a Comic Strip

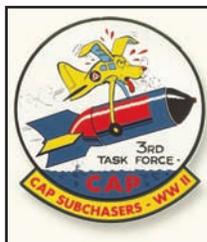
NAME: _____

1. Describe the positive message you will present in your comic strip.

Comic Strip Planning Chart:

Scene & Actions That Occur	Characters Present	Landscape & Props	Caption or Conversation Bubbles

2. Now draw your comic strip on a sentence strip or other strip of paper.



Visit the CAP historical website to see artwork by Zack Mosley at http://www.caphistory.org/art_media.html#zackmosley



Air Force Association Partnership

CAP wishes to share sincere gratitude to the Air Force Association for the many years of financial support enabling the perpetuation of the AE Mission via CAP's youth development programs for CAP units and teacher members. This winter quarter, appreciation is extended to the AFA for providing \$250 AE grants to 20 CAP Units selected in a competitive grant application process:

- **Pontchartrain Composite Squadron, New Orleans, LA** - AE School Outreach
- **Waukesha Composite Squadron, Pewaukee, WI** - Community Youth Aviation Adventure
- **Columbus Composite Squadron, Columbus, NE** - AE Fair for Unit and Outreach
- **153rd Madison Composite Squadron, Madison, WI** - Aerial Video Rocketry Outreach Workshop
- **NC Wing Group Four, Rock Hill, SC** - Group 4 Rocketry Encampment

- **176th Selfridge Composite Squadron, Ray, MI** - Boy Scouts Aviation Merit Badge Clinic
- **South Charlotte Cadet Squadron, Indian Trail, NC** - AE Program with Aerospace Professionals
- **Nighthawk Composite Squadron, Denton, TX** - A Higher Plane- Model Rocketry Program
- **71st Eielson Composite Squadron, Eielson AFB, AK** - Video-tech Rocketry w/Univ of AK Education Dept
- **Wheatland Composite Squadron, Wheatland, WY** - Robotic DDR Outreach Program
- **McLean County Composite Squadron, Normal, IL** - Challenger Center Mission
- **Singing River Composite Squadron, Moss Point, MS** - Doppler Radio ELT Tracking Outreach Program
- **Greenville Composite Squadron, Greenville, SC** - MARC-AMA Partnership Program
- **Lapeer Composite Squadron,**

- Attica, MI** - Robotic Programming & Career Program
- **Timmerman Composite Squadron, Milwaukee, WI** - UAV/First Person Video-AMA Partnership Program
- **Fox Cities Composite Squadron, Appleton, WI** - Near Space School Outreach Program
- **102nd Composite Squadron, Cumberland, RI** - Community & Aerospace Partnership Rocketry Program
- **Martinsburg Composite Squadron, Shepherdstown, WV** - Hovercraft & TARC Programs
- **9th Composite Squadron, Fairbanks, AK** - Cadet & Aerospace Officers Rocketry Partnership
- **LA 013 Senior Squadron, Shreveport, LA** - CAP & AFOTC AE Program

CAP appreciates the efforts of squadron AEOs to go above and beyond to promote AE!

(AFA information continued on page 11.)

AFA GRANT APPRECIATION

The leader of **Wesley Lakes Elementary School's After-School Aerospace Club** is also a CAP Senior Member, **Capt Geoffrey Chandler**, from the **Griffin Composite Squadron in McDonough GA**. He not only promotes AE within his CAP squadron, but also has enabled his Title I students opportunities for enrichment and inspiration toward STEM subjects and careers, during and after school. In the photo below, students prepare for aircraft landing activity, and to the right, for launch of their homemade rockets.



Geoffrey Chandler's year-long after-school AE enrichment program is possible due to the AFA AE Grant for CAP members.

Another exuberant educator, **Lori Loadholtz, from San Jose Catholic School in Jacksonville, FL**, is conducting an after-school Robotics enrichment program utilizing AFA AE

Grant funds. Twenty students from grades 6-8 meet with Ms. Loadholtz 1½ hours two days a week for the Lego Robotics Program. Students are experiencing building, programming, presentations, and teamwork activities. In the photo below, students prepare their robotics test field. Due to this opportunity, students



are increasing their STEM knowledge. Students are also gaining positive character development skills. One team will go on to the **FIRST®** Lego® League competition in January. Hopefully, this experience will extend far beyond this school year for these students and their teacher!





From The Deputy Director's Desk.....Dr. Jeff Montgomery

Before we get too far into 2012, I'd like to take a moment and thank all of our CAP Aerospace Education Officers and our teacher members for their hard work and tremendous aerospace accomplishments in 2011. Your tireless efforts in developing fantastic products and promoting AE to our cadets and students led to CAP being the recipient of two very prestigious national awards. CAP was selected by the National Coalition for Aerospace Education to receive the 2011 Mervin K. Strickler and the Crown Circle Aerospace Education Leadership Awards. Rarely does the same organization win both awards in the same year, but CAP's recognition in 2011 clearly demonstrates the organization's outstanding performance, commitment, leadership, and life-long contributions to aerospace education. We, at NHQ/AE, are honored to work with such talented and dedicated CAP unpaid professional members.

Also, as we move into 2012, please know that several AEO Schools will be conducted this year. These schools are designed to help AE officers at all levels learn more about their CAP AE duty posi-

tions and how they can better manage their responsibilities. Time is always devoted to learning more about all of the AE programs and products, including conducting a few hands-on activities. A standardized curriculum is delivered at each school, while also taking into account the local aerospace resources and opportunities for each school. Plans are underway to conduct at least 5 AEO Schools this year. Go to www.capmembers.com/ae, click on the yellow "AE: What's New?" box, and then click on AEO Announcements for locations and dates of the confirmed schools for this year. More information will be available soon to help you make your travel plans. If you have never attended an AEO school, you should seriously consider it. And, of course, returning attendees are always welcome! We strive to add and change information every year to make the school beneficial to new and returning attendees.

For AEMs, your area AEO will keep you updated about any Teacher Orientation Program (TOP) flights and workshops.



Lt Col Mike McArdle (on right), National AE Advisor, accepting the Crown Circle Award

CAP National Commander, Maj Gen Charles Carr, accepting the Mervin K. Strickler Award



Answers to questions on front page:

1. December 1, 1941
2. There is no age limit. A Senior Member can be as young as 18 and there is no limit to how old a person can be.
3. Aerospace Education, Cadet Programs, and Emergency Services

AFA's CyberPatriot IV Update

Thirteen Civil Air Patrol cadet teams will compete 13-14 January in Round 3 of CyberPatriot IV, the national high school cyber defense competition which challenges students to defend against realistic computer threat scenarios. CAP teams account for 34% of the 38 total remaining teams in the "All Service Division." Six cadet teams from each of the Air Force, Army, Navy and Marine Junior ROTCs make up the other 25 teams. All seven slots for 'wild cards' went to CAP. The CAP teams advancing in Round 3 of CPIV are:

- AL-Chilton County and Springville Composite Squadrons
- CO-Air Academy and Air Academy Composite Squadrons Teams 1 & 2 and

Colorado Springs Cadet Squadron

- FL - Jacksonville Composite Squadron
- MS - Olive Branch Composite Squadron
- NC - Apex Cadet Squadron
- OH-Youngstown ARS Composite Squadron
- OK - Oklahoma Wing Team
- SD - Big Sioux Composite Squadron
- VA-Newport News and Roanoke Composite Squadrons

CAP's Team Wilson from Orlando was the 2011 CPIII All Service National champion. "Civil Air Patrol is pleased our cadets have again assumed a leading role in this prestigious competition," said Maj. Gen. Chuck Carr, CAP national commander. "As the defending CyberPatriot III champion, CAP hopes to bring home the bacon in CyberPatriot IV – the 2012 Commander's Cup trophy."

The "Open Division" is made up of high school teams from around the country. Their final competition will be held 27-28 January. Both divisions will determine national champions in parallel competitions 22-23 March in National Harbor, MD. Good luck to all teams! Winning teams will be highlighted in the spring AE Newsletter.

In closing, CAP extends deep appreciation to the AFA for continued dedicated support to the youth of America! To find out more about all the AFA/CAP partnership programs, go to the AFA Partnership link at www.capmembers.com/afa. If you are NOT a member of AFA, find out how YOU can join a community-based/community outreach AFA chapter!



REGION TO REGION

For information on other pertinent dates for CAP Members and Educators, go to our calendar at www.capmembers.com/ae.

NORTHEAST REGION

March 16-17

Celebration of Teaching and Learning Conference will be held in New York City, New York.

<http://thirteencelebration.org/>

April 1

Nanotechnology - A summer institute for science, math, and technology teachers will be held at the University of Massachusetts in Amherst, Massachusetts.

<http://www.umassk12.net/nano>

MIDDLE EAST REGION

April 28-29

The 2nd Annual free USA Science & Engineering Festival will take place in Washington, D.C.

<http://www.usasciencefestival.org/2012festival/finale-expo/apply-for-career-pavilion#>

GREAT LAKES REGION

March 9-10

Michigan Science Teachers Association will hold its 59th annual conference at the Lansing Center & Radisson Hotel in Lansing, Michigan.

<http://www.msta-mich.org/>

March 29 - April 1

The National Science Teachers Association (NSTA) will hold its National Conference in Indianapolis, Indiana.

<http://www.nsta.org/conferences/2012ind/?lid-con>

SOUTHEAST REGION

February 16-17

2012 Georgia Science Teachers Association conference will be held at the Hyatt Regency in Atlanta, Georgia.

<http://georgiascienceteacher.org/Default.aspx?pagelid=1106450>

March 27 - April 1

The 38th Annual Sun 'n Fun International Fly-In & Expo will be held at Lakeland, Florida. The teacher workshop will be held on March 31.

<http://www.sun-n-fun.org/Flyin.aspx>

NORTH CENTRAL REGION

March 1-3

The 2012 Minnesota Conference on Science Education will be held at the Duluth Entertainment and Convention Center in Duluth, Minnesota.

http://www.mnsta.org/2012_Conference.html

SOUTHWEST REGION

February 2-4

The 18th Annual Space Exploration Educators Conference (SEEC) will take place at Space Center Houston in Texas.

<http://spacecenter.org/TeachersSEEC.html>

ROCKY MOUNTAIN REGION

March 14-16

Early Education and Technology for Children (EETC) will hold its annual conference in Salt Lake City, Utah.

<http://www.eetconference.org/>

PACIFIC REGION

February 25-28

The Alaska Society for Technology in Education (ASTE) will hold its 32nd annual conference in Anchorage, Alaska.

<http://aste.org/>

March 15-17

The International Technology and Engineering Educators Association (ITEEA) will hold its 74th annual conference in Long Beach, California.

<http://www.iteea.org/Conference/registration.htm>

April 25-28

Best Of Out-of-School Time (BOOST) Conference will be held at the Palm Springs Convention Center in Palm Springs, California.

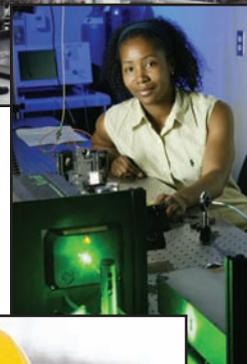
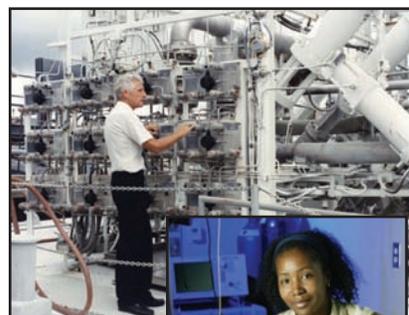
<http://www.boostconference.org/>

Special Events

February 19-25

Engineers Week - Show students how engineering depends on math and science by inviting engineers to the classroom to speak about their work.

<http://www.eweek.org/Home.aspx>



**E in STEM...
Engineering is for
Everybody**