

# Aerospace Education Newsbrief

from

## CIVIL AIR PATROL

*CAP provides a monthly AE E-Newsbrief for those interested in promoting aerospace education to the membership of CAP and to the general public. This is an easy one-stop location for current AE news, contests, Web sites, workshops, and information to share with your organization. It is hoped that at least ONE informational item will be useful in inspiring the next generation of aerospace enthusiasts and national workforce. To communicate with the CAP National Headquarters Aerospace Education team, contact [ae@capnhq.gov](mailto:ae@capnhq.gov).*

Stay attuned to CAP AE Quarterly Newsletters and monthly E-Newsbriefs- Utilize the CAP AE Web site's AE Newsletter and E-Newsbrief links to stay attuned to the most current information that may be of use in the promotion of aerospace in your organization. You can be notified when a new issue is placed on the website by signing up for this convenient service at

[http://www.capmembers.com/aerospace\\_education/stay\\_informed/ae\\_newsbriefs.cfm](http://www.capmembers.com/aerospace_education/stay_informed/ae_newsbriefs.cfm).

*August 2010*

- 1. Plan now to meet at the 2010 Civil Air Patrol Annual Conference and National Board –** This year's National Board and Conference will be held in San Diego, California, at the San Diego Marriott Marina from September 1-4. CAP will have Aerospace Education seminars to include STK (Satellite Tool Kit) and AE topics such as Teacher Orientation Program (TOP) Flights, Aerospace Education Excellence (AEX) Program, satellite imaging, current information for AEOs, and other interesting topics. Look for additional information, to include registration at [www.qocivilairpatrol.com](http://www.qocivilairpatrol.com).
- 2. National Aerospace Connections in Education (ACE) Program Award Winners Announced!** The CAP's unique K-6 ACE Program has impacted over 6,000 students this year at 63 educational sites in 23 states with the wonders of the aerospace theme to promote academics, character education, and physical fitness. To read more about the national winners of this exciting CAP program for elementary classrooms and schools go to [http://www.capvolunteernow.com/todays\\_features.cfm/cap\\_honors\\_top\\_aerospace\\_connections\\_in\\_education\\_achievers?show=news&newsID=8133](http://www.capvolunteernow.com/todays_features.cfm/cap_honors_top_aerospace_connections_in_education_achievers?show=news&newsID=8133).
- 3. Air Force Association (AFA)'s CAP Unit Grant Award Winners–** The winners of the summer CAP unit grant cycle funded by the Air Force Association are found at the announcements link at [www.capmembers.com/ae](http://www.capmembers.com/ae). CAP is honored to be the recipient of over \$22K each year to fund outstanding CAP unit and educator AE projects via this grant process. Without the support of the AFA, many CAP units and AEM classrooms would never be able to provide the enrichment and inspiration about science, technology, engineering and math (STEM) curricula and career options. CAP appreciates the extraordinary support given to units and teachers through these grant opportunities! **See sample photos at the end of this document.**

4. **Air Force Association (AFA) AE Grant Deadline for CAP Educator Grants is September 30, 2010.** Complete the application for the educator grant at: [http://members.qocivilairpatrol.com/aerospace\\_education/aem\\_specific/educator\\_grants\\_and\\_scholarship\\_information.cfm](http://members.qocivilairpatrol.com/aerospace_education/aem_specific/educator_grants_and_scholarship_information.cfm).

The next deadline for AFA Grant cycle for *units* will be December 31, 2010.

Information for these grants and other information can be found at: [http://members.qocivilairpatrol.com/aerospace\\_education/internal\\_specific/grants.cfm](http://members.qocivilairpatrol.com/aerospace_education/internal_specific/grants.cfm)

5. **Air Force Association (AFA) Opportunities for CAP-** To find out all of the opportunities for grants and awards provided CAP members by the Air Force Association, go to [www.capmembers.com/ae](http://www.capmembers.com/ae) and click on the AFA Partnership link. CAP, in return, provides complimentary memberships and Teacher Orientation Program (TOP) Flights to AFA State and Chapter Teachers of the Year and a special sponsorship opportunity for other teachers working with local AFA Chapters. CAP members are encouraged to become members of their local AFA Chapters to synergistically promote aerospace education throughout our nation.
6. **Coming to a theater near you! CAP members, plan now!** - CAP teacher, adult, and cadet members are being offered opportunities for **special group discounts** and viewings of the new *Legends of Flight* Imax film that was recently released. To find out more about viewing dates and locations, as well as associated educational curriculum for cadets and students, go to [http://www.capmembers.com/aerospace\\_education/general/announcements.cfm](http://www.capmembers.com/aerospace_education/general/announcements.cfm).
7. **CAP Aerospace Education Officer of the Year and CAP Aerospace Educator of the Year Award Nominations for 2011** – It is not too early to start preparing nomination packages for the 2011 awards. Find out more about award criteria and submission information on the AE Web site at [www.capmembers.com/ae](http://www.capmembers.com/ae).
8. **The Air Force Association's CyberPatriotIII registration is OPEN NOW for High School cadets and students across the nation!** The Air Force Association (AFA) has developed a cutting-edge technology competition for high school students around the country, CyberPatriot. For the past two years, a division of Air Force JROTC and CAP cadets have competed to determine which organization has the best cyber defense team. This fall, a second division will be added to the competition--- any high school student team across the nation can compete in CyberPatriotIII. The program is quite detailed, but has caught the attention of tech-savvy young people who are interested in learning more about how to use science, technology, engineering and math (STEM) to defend our country from cyber attacks. The AFA's CyberPatriot Web site has all details and information and is found at [http://www.afa.org/cyberpatriot/CyberPatriot\\_FAQ.asp](http://www.afa.org/cyberpatriot/CyberPatriot_FAQ.asp). The CAP site includes a downloadable CyberPatriotIII flyer useful in promoting the program at the unit level to high school cadets: [http://www.capmembers.com/cadet\\_programs/index.cfm/cyberpatriot\\_2010?show=entry&blogID=171](http://www.capmembers.com/cadet_programs/index.cfm/cyberpatriot_2010?show=entry&blogID=171). Registration will end **September 10**, or when 500 team slots from both divisions are filled.
9. **CAP Aerospace Education Members (AEMs) and Senior Members who are teachers can take to the skies!** Find the key to inspiring your students to want to learn more in your classroom this fall! Take a CAP Teacher Orientation Program (TOP) Flight in your local area in a CAP Cessna airplane. Contact Judy Stone at [jstone@capnhq.gov](mailto:jstone@capnhq.gov) to connect YOU with your state's outstanding volunteer Director of Aerospace Education (DAE) who can help make this flight a reality for you! Experience this unique opportunity that will lift your spirits and your mind toward innovative ways to inspire and motivate your students toward science, technology, engineering and math (STEM) subjects and careers!

**10. CAP's K-6 Aerospace Connections in Education (ACE) Program Registration Opens for 2010-2011 School Year-** The CAP's unique ACE Program for elementary classrooms and schools will open formal program registration from **August 17-September 17, 2010**. If your school or classroom participated last year and you plan to continue with the program, please register early to ensure placement! If you are interested in finding out more about the free grade-level specific, national academic-aligned, aerospace themed program, go to [http://www.capmembers.com/aerospace\\_education/aem\\_specific/ace\\_aerospace\\_connections\\_in\\_education\\_an\\_elementary\\_k6\\_program.cfm](http://www.capmembers.com/aerospace_education/aem_specific/ace_aerospace_connections_in_education_an_elementary_k6_program.cfm). If your school wants to soar onward and upward in STEM initiatives, the ACE Program is for YOU! For more information, contact [ace@capnhq.gov](mailto:ace@capnhq.gov).

***A multitude of other Aerospace Education contests, workshops, resources, grants, and opportunities.....***

**11. NEW! The Air Force Association Announces National Aerospace Week- Sept 12-18, 2010-** The goal of National Aerospace Week is to highlight the important contributions of the U.S. aerospace industry with a series of events during the week in Washington, D.C. and in manufacturing facilities and communities across the country. National Aerospace Week will feature industry's contributions to the economy, national security, and environmental stewardship. In addition, it will showcase industry's commitment to the future high-tech workforce of America and to creating and sustaining high-paying jobs across the country. To find out more about how your company, community, or organization can support the aerospace industry and schools across the country, go to: <http://www.afa.org/events/nataeroweek/default.asp>. For specific personal, industry, or educator opportunities, go to [www.NationalAerospaceWeek.org](http://www.NationalAerospaceWeek.org). To host a National Aerospace Week event, please contact Alexis Allen, Assistant Vice President of Communications at [alexis.allen@aia-aerospace.org](mailto:alexis.allen@aia-aerospace.org).

**12. NEW! New NASA Website Aims to Engage and Educate Advanced High School Students –** NASA's Math and Science @ Work project offers challenging supplemental problems based on space exploration topics. This project engages students by providing real-world applications to promote critical thinking and problem-solving while exposing students to careers in space exploration. These problems are for grades 10-12 and are available for calculus, physics, biology, chemistry, U.S. history, and human geography. Visit the Math and Science @ Work Web site at [www.nasa.gov/education/mathandscience](http://www.nasa.gov/education/mathandscience).

**13. NEW! Entries for the Fall 2010 Cassini Scientist for a Day Essay Contest Due Oct. 27, 2010 –** The Cassini Scientist for a Day contest challenges students from grades 5-12 to become NASA scientists studying Saturn. Participants examine three possible observations taken by Cassini and choose the one they think will yield the best scientific results. This choice must then be supported in a 500-word essay. Teaming is encouraged. Deadline for fall 2010 is **noon Pacific time on Oct. 27, 2010**. For more information, visit <http://saturn.jpl.nasa.gov/scientistforaday/>.

**14. NEW! NOAA Announces Funding Availability for Formal K-12 Education Projects –** The National Oceanic and Atmospheric Administration's Office of Education has issued a request for applications for formal K-12 education projects that advance inquiry-based Earth system science learning and stewardship directly related to the school curriculum, with a particular emphasis on increasing climate literacy. The deadline for pre-proposals is **5 p.m. EDT on September 8, 2010**. For more details and other information, go to [http://www.oesd.noaa.gov/funding\\_opps.html](http://www.oesd.noaa.gov/funding_opps.html).

- 15. NEW! NASA Announces Three New Centennial Challenges and Seeks Partners to Manage Each Challenge** – NASA has announced three new Centennial Challenges with an overall prize purse of \$5 million. NASA's Centennial Challenges are prize competitions for technological achievements by independent teams who work without government funding. This competition is for student teams, private companies of all sizes and citizen-inventors who can provide creative solutions to problems of interest to NASA and the nation. Proposals from organizations interested in partnering with NASA are due by **September 13, 2010**. Selection of partner organizations is expected by **October 8, 2010**. For descriptions of the challenges and information, go to <http://www.nasa.gov/challenges>.
- 16. Celebrate World Space Week – Oct. 4-10** – Join educators and space enthusiasts around the world to celebrate World Space Week. To learn more about World Space Week, search for events in your area and find educational materials related to the event, visit <http://www.worldspaceweek.org/index.html>.
- 17. NEW! RealWorld-InWorld NASA Engineering Design Challenge** – The RealWorld-InWorld NASA Engineering Design Challenge invites high school students to work cooperatively as engineers and scientists to solve real-world problems related to the James Webb Space Telescope. The first phase of the challenge is due **December 15, 2010**. For more information about the challenge, visit <http://www.nasarealworldinworld.org/>.
- 18. NEW! NASA Announces a New Tool for Visualizing Distance-Rate-Time Problems** – NASA has released an interactive online tool that enables students to simultaneously visualize and manipulate three linked representations of a distance-rate-time problem. The side-by-side tool format features two airplanes (each flying at a constant speed) on merging jet routes, the corresponding distance-vs.-time graphs, and the corresponding linear equations. The free classroom materials include the tool, student workbooks, assessments, teacher guides, and alignments to grades 5-9 mathematics standards for all 50 states. This is an addition to the Smart Skies mathematics investigations. Visit <http://www.smartskies.nasa.gov/flyby>.
- 19. Applications Now Open! NASA's Electronic Professional Development Network (ePDN) Offering Podcasting Course** – This initiative is dedicated to preparing teachers to engage their students in STEM (science, technology, engineering and mathematics) through the use of NASA-developed learning materials and resources. The NASA ePDN Application Process is available for all teachers in grades K-12. To learn more about opportunities, credits, and the application process, go to [www.nasaepdn.gatech.edu](http://www.nasaepdn.gatech.edu).
- 20. International Youth Art Competition Accepting Submissions** – In April 2011, experts from around the world will gather in Houston, Texas, for the International Academy of Astronautics Humans in Space Symposium. As part of this event, students ages 10-17 are invited to express their ideas about the future of human space exploration through visual, literary, musical, or digital art. Submissions must be received by **September 30, 2010**. For guidelines, theme, and other information, visit [www.humansinspaceart.org](http://www.humansinspaceart.org).
- 21. Real World Design Challenge Registration Open** - The Real World Design Challenge (RWDC) is an annual competition that provides high school students, grades 9 – 12, the opportunity to work on real world engineering challenges in a team environment. It is open to public schools, private schools, charter schools, home schools, and after-school programs. The program is free and each teacher gets \$1 million in professional engineering software, access to mentors, as well as many additional resources. Coaches and teachers may register teams now at [www.realworlddesignchallenge.org](http://www.realworlddesignchallenge.org).

- 22. National Science Teachers Association (NSTA) Offers Many Resources at No Charge** – Check the NSTA web site for free educational offers, as well as specific offers for members of NSTA. Visit <http://www.nsta.org/> and search on the left-side menu link “NSTA Learning Center.”
- 23. NASA Wants to Fly Your Face in Space** – NASA wants to put a picture of YOU on one of the two remaining space shuttle missions and launch it into orbit. After registering at the Face in Space web site, you'll be able to upload an image that will be put on a disc and flown aboard a shuttle on a future mission. You will receive a confirmation number and information about which flight your “face” will be on. To learn more and upload your image for flight, visit <http://faceinspace.nasa.gov>.
- 24. Grants for Grades 6-12 Educators from Toshiba America Foundation** – The Toshiba America Foundation announces funds to support teachers who are passionate about making science and mathematics more engaging for their students. Funds must be used to support classroom projects. Public and private schools are eligible. Deadline is **August 20, 2010**. For information, visit <http://www.toshiba.com/taf/612.jsp>.
- 25. NASA Brings the Universe to You Through the Power of IMAX and the Hubble Telescope** – IMAX brought the latest 3D movie to selected locations in March/April 2010 with wider release occurring in August 2010. The movie allows viewers to journey through distant galaxies to explore the mysteries of our celestial surroundings with Hubble imagery. For classroom activities inspired by the film, go to <http://www.imax.com/hubble>.
- 26. Bring the Excitement of Robotics and the STS-131 Space Shuttle Mission Into the Classroom** – Visit NASA.gov and access the STS-131 page for educators at the following location: <http://www.nasa.gov/audience/foreducators/sts131-index.html>.
- 27. Link to NASA's Virtual Skies Available on CAP AE Web site** – NASA has released the revised Virtual Skies program that introduces the key concepts in the world of aviation in six independent modules. Recommended for high school students and used by other educational audiences, Virtual Skies helps students acquire and employ decision-making and collaborative skills while applying principles of algebra, geometry and calculus in each of these modules. To link to this useful site, go to [www.capmembers.com/ae](http://www.capmembers.com/ae) and click on “Lessons and Other AE Resources.” The link will be on the page for the “Planes” topic.
- 28. NASA Enables Students to Launch Virtual Space Shuttle** – NASA has launched a computer simulation program that allows students and educators to take on the roles of NASA engineers and launch the shuttle from their own classrooms. Students work as a team to monitor shuttle systems during a launch countdown to decide whether they are “go” for liftoff. The software is the Kennedy Launch Academy Simulation System (KLASS), which was designed for 6<sup>th</sup> through 10<sup>th</sup> grade students to develop STEM skills. The KLASS materials (software, lesson plans, and interactive resources) are available for download at <http://www.nasa.gov/education/klass>.
- 29. NEW August Listings! Look for the latest offerings on NASA TV** – The August NASA Television Education File Schedule (beginning August 1<sup>st</sup>) can be found at <http://www.nasa.gov/audience/foreducators/topnav/schedule/index.html>. NASA TV's main site can be located at <http://www.nasa.gov/multimedia/nasatv/index.html>.
- 30. NASA Launches New Careers Web Page** – NASA Education has launched a new Web page that serves as a starting point to learn about jobs at NASA. Visit the site to learn more about scientists, technical experts, engineers, mathematicians, physicists, accountants, astronauts, pilots, astronomers and experts in many other fields. Visit the new NASA Education Careers Web page at <http://www.nasa.gov/education/careers> .

- 31. 2010-11 Green Aviation Student Competition** – This challenge invites high school students to propose ideas and designs for future aircraft that use less fuel, produce less harmful emissions and make less noise. The contest spans a full calendar year, so students have multiple opportunities to enter. The deadline for the second round is **December 2010**. Students are asked to submit a well-documented paper and a short video to explain their ideas. For more information, visit [http://aero.larc.nasa.gov/era\\_high/competitions\\_high\\_era.htm](http://aero.larc.nasa.gov/era_high/competitions_high_era.htm).
- 32. NASA Education's Act Now page highlights upcoming NASA opportunities available for teachers and students.**  
<http://www.nasa.gov/audience/foreducators/topnav/actnow/index.html>
- 33. Connect with The Space Place and SciJinks through Facebook and Twitter** – The Space Place is an extensive, content-rich Web site from NASA for upper elementary-age kids and their teachers and parents, and anyone else who likes a simple, readable, fun presentation of a wide range of space and Earth science and technology topics – <http://spaceplace.nasa.gov>. (On Facebook, <http://facebook.com/nasaspaceplace> and on Twitter, <http://twitter.com/nasaspaceplace>.)
- SciJinks is a highly-interactive Web site that provides middle-school students and audiences of all ages an amazing science education opportunity. Provided by NOAA and NASA, the web site transports visitors to the wild world of weather to learn about predicting global weather patterns – <http://scijinks.gov>. (Facebook- <http://www.facebook.com/scijinks> Twitter- <http://twitter.com/scijinks>)
- 34. NASA Invites Young People to Take Virtual Space Station Spacewalks** – A new video game based on actual work astronauts performed during the course of several NASA missions is available online. To take a virtual spacewalk in the Station Spacewalk game, visit [http://www.nasa.gov/multimedia/3d\\_resources/station\\_spacewalk\\_game.html](http://www.nasa.gov/multimedia/3d_resources/station_spacewalk_game.html).
- 35. The National Museum of the U.S. Air Force Officials Launch Virtual Tour** – Museum officials launched a free museum tour podcast on their web site so visitors have access to a wealth of information as they tour the museum. The podcast, available at [www.nationalmuseum.af.mil](http://www.nationalmuseum.af.mil), acts as a virtual tour when visitors are exploring the application on a computer. Tour segments for the Early Years Gallery and Air Power Gallery are now available to the public. More segments will be added throughout 2010.
- 36. Online Training for Teaching Hands-on Engineering Activities with NASA and DESIGN SQUAD** – An online workshop has been developed for educators and afterschool leaders to build their skills and confidence in guiding kids through engineering activities like those found in the On the Moon Educator Guide from NASA. For more information about this self-guided online workshop go to <http://pbskids.org/designsquad/parentseducators/workshop/welcome.html>.
- 37. NASA Invites You to Send Your Name to Mars** – Submit your name to be included on a microchip that will be sent to Mars as part of NASA's Mars Science Laboratory mission, scheduled to launch in 2011. The "Send Your Name to Mars" Web page enables anyone to take part in the mission by sending his or her name to the Red Planet. To submit names, visit <http://marsprogram.jpl.nasa.gov/msl/participate/sendyourname/>.
- 38. NASA Announces eClips for Educators and Students** – This web-based educational project is offered free to every student and educator in the country, from kindergarten level through lifelong learners. NASA eClips are short, five- to 10-minute video segments available on-demand via the Internet for the current school year. Check out the potential of this project at <http://www.nasa.gov/education/nasaclips>.

- 39. NSAA (Norton Space and Aeronautics Academy) Teacher Training Opportunity: Goldstone Apple Valley Radio Telescope Program** - The Lewis Center for Educational Research in Apple Valley, California, announces an opportunity for K-12 teachers to participate in a unique program. This program uses radio astronomy to provide an opportunity for students to experience real science and to learn that science is on-going and actual discovery is possible. Students and teachers team with scientists to conduct cutting-edge research leading to discovery. In 2010, the teacher training program will also include Radio Jove. Radio Jove is a hands-on educational activity that brings the radio sounds of the sun, Jupiter, the Milky Way galaxy, and terrestrial radio noises to students, teachers and the public. To bring this program into the classroom, teachers must attend a five-day class. Teacher training classes are scheduled to take place at the Lewis Center on **October 25-29, 2010**. To find out cost and requirements for this program, visit <http://www.lewiscenter.org/gavrt/opportunities.php>. For more information about GAVRT and Radio Jove, visit <http://www.lewiscenter.org/gavrt/> and <http://radiojove.gsfc.nasa.gov> .
- 40. The Educational Materials section of NASA's Web site offers classroom activities, educator guides, posters and other types of resources that are available for use in the classroom.** Check out the latest offerings at this wonderful site at <http://www.nasa.gov/audience/foreducators/topnav/materials/listbytype/>. Other resources for educators include: NASA Education Spacesuits and Spacewalks Web site at [www.nasa.gov/education/spacesuits](http://www.nasa.gov/education/spacesuits); and the new Robotics Web site at <http://www.nasa.gov/educators/robotics>.
- 41. "From Earth to the Universe" Exhibit on Display Worldwide** – This collection of astronomical images that showcase the most dramatic views of the universe will be exhibited in over 250 locations throughout the world in 2010. These exhibits, held in public parks, airports, art centers and at other unique sites, will bring the wonders of the universe right to you. To find dates and locations for the exhibit, visit [http://www.fromearthtotheuniverse.org/table\\_events.php](http://www.fromearthtotheuniverse.org/table_events.php). (Click on USA for end-of-year USA locations.)
- 42. Lockheed Martin, the Space Foundation and SpaceClass announced the launch of a strategic online education collaboration called *Orion's Path*.** *Orion's Path* is an interactive lesson on SpaceClass -- the only web-based education program using videos and virtual science labs to engage students in research being conducted for space exploration. Lesson contents meet National Learning Standards for middle school grades and use of the site is free to teachers. To sign up, go to <http://www.lockheedmartin.com/products/Orion/OrionsPath.html>.
- 43. National Space Biomedical Research Institute** – This institute focuses on the effects of long-term spaceflight on the human body and how to counter any negative effects it might have. The institute provides educators with valuable teacher activity guides on Bones and Muscles, Food and Fitness, and Sleep and Daily Rhythms. To find out more about NSBRI go to <http://www.nsbri.org>. The link to the teacher guides is <http://www.nsbri.org/Education/Materials.html>.
- Information for CAP Aerospace Education Officers (AEOs).....***
- 44. CAPP 15 and CAPP 215 online**– Aerospace Education Officers will be pleased to know that the revised CAPP 15 (Aerospace Education Officers Handbook) and the revised CAPP 215 (AE Specialty Track) are online under the forms and publications link at [www.capmembers.com](http://www.capmembers.com). The 215 Specialty Track tests are online, as well, under CAP University (online courses and exams link).

**45. Information for CAP Directors of Aerospace Education (DAEs) pertaining to the Yeager Test:** **NOTE: Members taking the Yeager test need only take and pass one of the two tests provided on the Yeager test site. The second test is for those who may need to take the test a second time to receive credit for passing.** CAP members receive immediate feedback when they take the Yeager Test online! After successfully passing the test online, the member will automatically have his/her accomplishment posted to his/her records and the Yeager Certificate will be available for download as a pdf. (NOTE: A Form 127 and CAPC 20 are only needed if the exam is taken with pencil/paper.) This process streamlines the CAP Yeager test process and makes the reporting easier for all concerned. **DAEs can track which wing members have taken and passed the online test by logging in at <https://ntc.cap.af.mil/login.htm> and going to “Test Reports” in the left column of the menu. This link is restricted to those who have specific permissions assigned to CAP region or wing HQ. If a DAE is not assigned to the wing HQ, he/she should contact the wing commander and ask for specific permissions via the Web Security Administrator.** Remember: This system has tracked the Yeager Award since March 2004, so all of the members who took the Yeager on paper before then were not tracked.

**46. CAP Aerospace Education Member (AEM) contact information** – CAP Region and Wing Commanders, DCS/AEs, and DAEs in each region and wing have accessibility to the names and contact information of Aerospace Education Members in their wings and regions. We would like you to know who these outstanding people are so you can invite them to AE workshops and teacher flights and any other relevant programs that would apply to Aerospace Educators for your area. This information can be found in e-services under Member Reports and Aerospace Education links and requires permissions received from your commander.

**47. CAP Teacher Orientation Program (TOP) Flights** – Aerospace Education Officers, you can invite current AEMs (Aerospace Education Members), as well as new teachers to join as AEMs, to share in an exciting Teacher Orientation Program (TOP) Flight and workshop that will help them get their students excited about aerospace. Remember to keep the Wing Commander and your wing POC (usually the Director of Aerospace Education) informed and supportive of your efforts. Please contact Judy Stone at [jstone@caphnq.gov](mailto:jstone@caphnq.gov) to discuss your plans (number of teachers flying, date, and estimated cost) prior to actual flights. For more information, go to the Teacher Orientation Program (TOP) Flights section at [www.capmembers.com/ae](http://www.capmembers.com/ae).

***More AE Information from CAP ....***

**48. 2010 Aerospace Education Excellence (AEX) Award Program-** Make sure that YOUR unit or classroom participates and completes the AEX Award Program to receive a classroom/unit plaque and participant certificates. Any CAP unit or any K-12 teacher who is a CAP member can participate! Apply easily and electronically in CAP e-services. An email confirmation and AEX books will arrive soon after. To receive your unit or classroom plaque and participant certificates, simply fill out the electronic report on line upon completion of the program. To apply and report online, go to <https://www.capnhq.gov> and enter e-services with your password or follow the “first time user” steps to enter e-services. For assistance, contact Debbie Dahl at [ddahl@capnhq.gov](mailto:ddahl@capnhq.gov).

**49. Adams State College Offers Graduate Credit Opportunities for CAP Educators!** Adams State College in Alamosa, Colorado, is offering graduate credit for completing specific requirements in association with CAP’s Aerospace Education Excellence Program (AEX) lessons. See [www.capmembers.com/ae](http://www.capmembers.com/ae) for further information, or go directly to [http://www2.adams.edu/extended\\_studies/independent/aex/aex.php](http://www2.adams.edu/extended_studies/independent/aex/aex.php). For further information, contact Dr. Jeff Montgomery at [jmontgomery@capnhq.gov](mailto:jmontgomery@capnhq.gov).

**50. CAP Aerospace Education materials can be ordered online!** AEMs and AEOs can order the tools needed to promote the AE program in their local communities and schools. AEOs can receive a complete set of AE materials for presentation to prospective educators. **Order one copy** of each our materials via our online ordering system. Sign in at CAP's e-services: <https://www.capnhq.gov>. Look on the far right column and find CAP Materials and click Submit Order. Select AE Materials from the drop down menu. Fill out the order form and the mailroom will process and fill your order. If an item is out of stock, check back soon, as new printing is being done at this time. If you need any further assistance, please contact [ae@capnhq.gov](mailto:ae@capnhq.gov).

**51. Scott Crossfield Foundation web site can be found at:**

[www.scottcrossfieldfoundation.org](http://www.scottcrossfieldfoundation.org) – To continue the legacy of famed pilot, Scott Crossfield, and CAP's AE Award namesake, you can share memories of Scott Crossfield on this site. If you have a story to tell, you can go to the "Tell A Story" section and add your story. At this site, you may also make a donation to the foundation in order to maintain and perpetuate Scott Crossfield's legacy to teachers.

**52. The 2<sup>nd</sup> Edition of the CAP AE textbook, *Aerospace: The Journey of Flight*, and accompanying Teacher's Guide is available for purchase\*\* through Vanguard Industries** – The book may be purchased for \$20.35 and the Teacher's Guide may be purchased from Vanguard Industries for \$8.25 at

[http://www.vanguardmil.com/store/index.php?main\\_page=index&cPath=6\\_383\\_387&zenid=6044a0e8c93b91526f4cf28cbd681887](http://www.vanguardmil.com/store/index.php?main_page=index&cPath=6_383_387&zenid=6044a0e8c93b91526f4cf28cbd681887). \*\*The textbook is also downloadable in CAP e-services. After entering e-services, go to Aerospace Downloads in the left column and click there to see the textbook chapters. [www.capnhq.gov](http://www.capnhq.gov)

**53. Satellite Tool Kit (STK) for the Classroom** – Analytical Graphics, Inc. (AGI) is offering the leading off-the-shelf satellite software package to CAP's educator members at no cost. This program is an awesome program to educate adults and youth about the awesome work of satellites. For licensing and to receive your disk, contact Dr. Jeff Montgomery at [jmontgomery@capnhq.gov](mailto:jmontgomery@capnhq.gov). For more information about STK and CAP's aligned implementation initiatives, go to [http://www.capmembers.com/emergency\\_services/operations\\_support/advanced\\_technologies.cfm](http://www.capmembers.com/emergency_services/operations_support/advanced_technologies.cfm).

**54. Satellite Tool Kit (STK) Users' Conference Tour**– AGI, makers of STK, has coordinated a spring and summer tour to provide STK training in 13 locations (Training sites in July include Virginia, Maryland and Pennsylvania.) This one-day training is FREE and well worth the time and effort to attend. The emphasis will be on gaining a better understanding of how to use the STK software. Go to <http://uc.agi.com> to find a site near you.

***Thanks to EACH of you for promoting aerospace education to youth and the general public all across our great nation!***

***Sincerely,  
the CAP NHQ AE Team***

***Note: See AFA Grant Photos to follow....***



With sincere gratitude to the Air Force Association from students in Carrie Murray's fifth grade class at Hopewell Elementary in West Chester, Ohio. The school's Space Week was made possible by one of the \$250 AFA grants given to CAP teachers and units throughout the year.



The CAP Monroe Composite Squadron was also greatly appreciative of the \$250 AFA Grant for CAP Units that enabled the CAP cadets to mentor local Boy Scouts in an Aerospace Day event held at the Monroe Custer Airport in Monroe, MI. Under the leadership of Aerospace Education Officer, Capt Jeff Walters, connecting two awesome youth development organizations to launch rockets was a blast!

