



## *The Daedalean*

**Semper Discens**

*Monthly Aerospace Education Newsletter of the Connecticut  
Wing of the Civil Air Patrol*

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### **CALENDAR**

03 DEC-Combined WG Staff/Commanders Call  
06-07 DEC-Training Leaders of Cadets Course

### **ANNUAL REPORTS COMING DUE**

All Squadron Aerospace Education Officers are advised that the mandatory annual Squadron "Aerospace Education Activity Report" is due on January 15th, 2009. These reports form the basis for our Wing Report prepared by the DAE.

Many of the good programs which you have go unreported and we are hoping for a 100% response this year. The report may be found on pages 47 and 48 of the "Aerospace Education Officers' Handbook" which is CAPP 15. You may obtain a copy by going to the following web address:

[http://level2.cap.gov/documents/u\\_082503081605.pdf](http://level2.cap.gov/documents/u_082503081605.pdf)

### **PROFESSIONAL DEVELOPMENT COURSES OFFERED**

The Wing Professional Development Officer, LtCol Oestreicher, has been offering a series of courses this fall. The Unit Commanders and Training Leaders of Cadets courses are still open.

Course descriptions and requirements follow:

*Training Leaders of Cadets – TLC – December 6/7  
(0900 – 1700 both days)*

***Requirements for attendees:*** As outlined in CAPR 50-17, the student must complete a CAP Form 17, have his/her commander sign it and forward it to Lt Col Oestreicher. Unit Commanders must request permission from the Wing Commander.

The student must have completed Level 1 and should be enrolled in one or more specialty tracks. Students must pay the attendance fee.

*The course will cost \$25 per attendee. This covers the cost of paper, pens, pencils, binders, supplies, copying, printing, breakfast, lunch, and snacks (soda, coffee, tea, milk, etc.) for both days. If you have any dietary restrictions please let Lt Col Oestreicher, the Director of Professional Development, know immediately. Checks must be made out to "CTWG." Cash will not be accepted.*

*The course will be held at Connecticut Wing Headquarters in Middletown, CT.*

*All course materials are available on-line from the National Website (Power Point).*

*All participants must complete all requirements to attend the class before attending.*

*All appropriate forms, payments, and authorizations must be submitted No Later Than (NLT) 5 days prior to the start of the course to Lt Col Oestreicher, after appropriate signatures have been obtained from the student's commander.*

*If we do not have at least five CAP Form 17s within five days of the start of the course, the course will be canceled.*

## **2009 WING ROCKET CONTEST** **Tentative Draft Rules**

In order to allow sufficient time for preparation, we are publishing a tentative set of "Rules of Engagement" for the 2009 contest and invite comments from the Squadrons. The Contest will provide a basis for some winter aerospace and AEX activity. Hopefully, the contest will again be held in conjunction with the Connecticut amateur rocketry club, CATO with a date to be announced, hopefully in the month of April, May, or June.

Here are the draft rules:

1. Novices who have not competed in a previous contest will construct an Estes Alpha (balsa fins). The rocket will be decorated with a Squadron theme design.
2. Squadrons will enter a kit built rocket which replicates a historical vehicle. The entry will include a one page, 300-500 page essay, on why this rocket is historically important.
3. A scratch built rocket will be constructed based upon the theme, "Comic Characters." These characters might include by are certainly not limited to Superman, Mighty Mouse, Snoopy, or some other figure from newspapers, books, cinema, or TV.

Engine size for any entry is limited to D size engines.

Points will be assigned for quality of construction and decoration, flight, and uniqueness. A more complete list of criteria for judging will be forthcoming. If possible, we would like to expand the list of rockets submitted for judging but this may depend upon the participation and time available.

Readers are invited to submit suggestions for the 2009 contest. Email them to The Daedalean address on the masthead.

## **NATIONAL CADET SUMMER ACTIVITIES**

If you are interested in any of the NCSA, you must first have an encampment under your belt. If you want to participate in NCSA but don't have an encampment yet, contact Lt Wojtcuk for details about the Rhode Island's encampment (in April - the first encampment in the US each year).

The applications for NCSA are due between December 1 and January 15 and are completed and sent via the internet. To to the following website for more information.

[http://members.gocivilairpatrol.com/cadet\\_programs/activities/national\\_special\\_activities/index.cfm](http://members.gocivilairpatrol.com/cadet_programs/activities/national_special_activities/index.cfm)

This site will give you a link (with instructions) for the application process. It also lists all the NCSAs for 2009 and links to detailed descriptions of each.

## **WASHINGTON TRIP REPORT**

The Thames River Composite Squadron completed a four day, 1000 mi trip to the Washington, D.C. area over Veteran's Day Weekend.

The trip was used as a dry run for a possible Wing journey in the spring of 2009. The week of April 12-20 is a school vacation period for most town schools. The Director of Aerospace Education and Capt Art Dammers of the 103rd, the newly appointed Wing Internal Aerospace Education Officer are studying the possibilities. Squadrons which are interested in participating should contact Capt Rocketto or Capt Dammers

Cadets Jonathan Scannell, Shawn East, Kevin Roe and Maj Bourque and Capt Rocketto departed Norwich at 0700 on Friday. The first point of interest which they visited was Vigilance Park at the National Cryptologic Museum, Fort Meade, Md. Aircraft on display were tributes to the

sacrifices which Air force, Navy, and Army personnel made in carrying out cryptographic and signal intelligence missions.. These were a C-130A, an EA-3B, and an RU-8D.

The group then checked into their quarters at Bolling Air Force Base. These were a two bedroom, living room, kitchen suite completely outfitted with all of the amenities.

After depositing their gear, they immediately left to visit the National Air and Space Museum on the Mall in Washington. Cadets Scannell, East and Roe concentrated on the World War II exhibits. The "U.S.S. Smithsonian" replicated part of the flight operations area of an Essex class aircraft carrier. The U.S.A.A.F exhibit displays a wide variety of aircraft from the European Theater of Operations including a rare Macchi C-202 *Folgore*, the forward fuselage of the B-26 "Flak Bait," which took over 1000 hits in 202 missions, and Keith Ferris's extraordinary mural, "Fortress Under Fire" which forms the backdrop of the display.

Capt Bourque spent much of his time on a general search of suitable subjects for photograph. Capt Rocketto concentrated on the World War I and Golden Age of Flight galleries but found time to view the replica of Tycho Brahe's Armillary Sphere, and study the collection of aerial cameras on display.

On the second day, the group went to Union Station to pick up Cadet Michael Molinari who had journeyed down by train. They then headed south to the new Museum of the United States Marine Corps at Quantico, Va. The building itself, symbolizing the Mt. Suribachi flag raising, forms a central court surrounded by a semicircle of galleries offering exhibits which illustrate various phases of history of The Corps. The central court's rotunda displays famous statements about the Marines and contains four notable aircraft; two Corsairs, a Harrier, and a Jenny. The floor displays are of combat assaults, one by helicopter in Korean and one by amphibious tractor at Tarawa. It was the eve of the 233rd birthday of

the USMC and many former Marines were in attendance and stories about over the beach assaults, "Frozen Chosin," Khe Sanh, and expeditionary operations abounded.



*M-79 Armed Marine and Ontos Vehicle are Part of a Vietnam Combat Diorama*

In the afternoon, we traveled to the National Firearms Museum of the National Rifle Association. Exhibits ranged from specialized collections of a single firearm such as the Winchester Model 70, firearms of famous notables such as Teddy Roosevelt, and collections which illustrated the development of firearms technology, firearms as an art form, or firearms as tools for hunting, self-protection, or the military.



*Chuck Yeager and his Gold-Washed Beretta Pistol Presented by the Minister of Defense of Cuba*

That evening we activated our GPS and went on an hours long quest for a Chinese restaurant. Leaving Bolling, our search took us in a circular path south through D.C. Maryland, and Virginia. At each location, we discovered that the restaurant

no longer existed. Chinese restaurants have the half-life of the promises of a politician and our disappointment manifested itself in hunger cramps and unrequited hunger.

Nonetheless our spirit was not broken. On the morrow, we departed for the National Air and Space Museum Udvar-Hazy Annex at Dulles International Airport. This collection is almost totally housed in a huge hangar, unlike the gallery arrangement on the mall. Aircraft fill the floor and hang from the ceiling. An adjoining gallery houses the shuttle test vehicle Enterprise and a wide range of missiles, satellites, and artifacts of the space age. The Cadets joined a group of Marines on a docent led tour. Maj Bourque headed for the *Enola Gay* and the Enterprise. Capt Rocketto searched for aircraft flown by famous people such as Roscoe Turner, Charlie Blair, Billy Mitchell, and Wiley Post.

Some of the aircraft on view included an Air France Concorde, the Boeing 307, the prototype Boeing 707, the second production Learjet, an F-35, a Dornier 335, and a Stinson L-5 equipped with Brodie Gear.

We spent the full day at Udvar-Hazy and took in the IMAX features. Some viewed "The Blue Planet," the earth from space. Others went to "Fighter Pilot," which featured an international "Red Flag" combat exercise at Nellis Air Force Base, Nevada.

In the evening, we returned to downtown Washington and spent several hours touring the Mall, viewing the monuments and government buildings.

On our last day, we departed early, heading north for Aberdeen, Md where we spent several hours at the U.S. Army Ordnance Museum. The museum consists of a building which houses a two floor collection of military small arms and a field in which several hundred tanks, self propelled artillery, armored personnel carriers and artillery pieces. Some notable items outside are the U.S.

"Atomic Cannon," the German 240 mm railroad gun, and the 16 in coast artillery rifle.

*Cadets and Officers Stand  
by the 43,600 lb T-12  
General Purpose Bomb  
Designed to be Carried by  
the Convair B-36.*



The group left Aberdeen and made it back to Groton in time to attend the weekly meeting.

### **MEMORIES OF DECEMBERS PAST**

*This column was instituted in September of 2007 with the intent that it would supply AEOs with ideas for aerospace lessons and provide interesting information for the airplane "buff." We are now about one-quarter way for the second year and endeavor to provide, as far as possible, a second set of events for the same monthly dates. The two year compilation will then provide over 700 references to events in aviation history.*

01 DEC, 1934-American Airlines, Eastern Air Lines, TWA, and United Airlines joined in a cooperative venture and inaugurated the first ATC facility at Newark Airport, NJ. Interesting references to flying under this system may be found in Ernest Gann's classic adventure, *Fate is the Hunter*.

02 DEC, 1976-First flight of the Boeing 747 SCA, an ex American Airlines aircraft modified to Space Shuttle Orbiter back to Florida in the event of landings at alternate sites. A second Shuttle Carrier Aircraft, a 747-100SR was acquired later from Japan Airlines. A rough calculation to one significant figure shows that given its loaded range of 1000 nm, an aircraft length of 232 ft, and a full fuel load with a conservative reserve will yield a fuel consumption figure of about one gallon per aircraft length!



*Orbiter and 747 on the NASA Mate-Demate Gantry at Edwards AFB*

03 DEC, 1945-The noted test pilot, Lt. Cmdr Eric "Winkle" Brown, makes the first landing of a pure jet on an aircraft carrier when he guides a de Havilland Sea Vampire onto *H.M.S. Ocean*.



*The de Havilland Vampire was Unusual in that it was a Plywood-Aluminum Composite*

04 DEC, 1991-Pan American World Airways goes west after 64 years of operation.



The Modest Key West First Office of PAA

05 DEC, 1945-First Flight of the Douglas C-74 Globemaster, progenitor of the Douglas C-124 Globemaster II and the McDonnell-Douglas C-17 Globemaster III.



*Note Double-Bubble Canopies on Globemaster I (USAF Photo)*



"Old Shaky"-The Globemaster II



*Globemaster III*

06 DEC, 1975-A Tupolev Tu-144 flying from Moscow to Alma Alta completes the first airmail flight by supersonic transport.

07 DEC, 1941-Japanese aircraft, launched from six aircraft carriers, attacked US military facilities at Pearl Harbor in the Hawaiian Islands.

08 DEC, 1964-A United Airlines Sud-Est *Caravelle* makes he first automatic landing in the United States.



*Caravelle in LAN-Chile Livery*

09 DEC, 1951-First Flight of the Fiat G.80 jet trainer designed by Giuseppe Gabrielli. The G.80 was the first turbojet aircraft produced in Italy and one of a long line of Gabrielli designed aircraft. Garbrielli also designed the G-222 which has since morphed into the Alenia C-27 Spartan now adopted by the USAF and US Army as an intra-theater transport.

10 DEC, Captains and brothers, Ross Smith and Keith Smith accompanied by Sgts W.H. Shiers and J.M. Bennett land their Vickers Vimy bomber in Darwin completing a flight from Great Britain to Australia and winning a 10,000 pound prize offered by Australian Prime Minister Bill Hughes.



*Smith Bros. Vimy on Display in Australia*

11 DEC, 1917-Katherine Stinson sets a non-stop distance and endurance record, flying just over 600 miles in nine hours and six minutes from Camp Kearney, San Diego to The Presidio, San Francisco. She flew an OX-2 powered modified Curtiss JN.

12 DEC, 1970-Italy launches a Explorer 42, a satellite designed to investigate celestial x-ray sources. The launch vehicle is the Langley designed Scout and the launch site is the San Marco platform located in the Indian Ocean off the coast of Kenya. This is the first NASA satellite launched by a nation other than the USA.

13 DEC, 1918-A Handley-Page V-1500 four engined bomber departed Great Britain for the first ever flight to India, landing in Karachi on 12 January, 1919. The crew consisted of A.C.S, Maclaren, Robert Halley and N.D.K. McEwan.

14 DEC, 1924-A Martin MO-1 was launched off the forward turret of the U.S.S. Mississippi which was standing off Bremerton, Wa. This was the first successful trial of a gunpowder powered catapult.

15 DEC, 1970-Artem Mikoyan goes west.

16 DEC, 1951-First Flight of the Kaman K-225, the first turbine powered helicopter. Charlie Kaman's Bloomfield, CT company pioneered the concept of intermeshing rotors and servo flaps as an alternative to the tail rotor and rotor head of more conventional machines. (And let us not forget Ovation guitars and guide dogs for the blind.)



*K-225 on Display at NASM Udvar-Hazy Center*

17 DEC, 1935-First Flight of the Douglas DST (Douglas Sleeper Transport), known as the DC-3 in its 31 seat version.

18 DEC, 1970- Aerospatiale, Fokker, Hawker-Siddeley, and *Deutsche* Airbus amalgamate to form Airbus Industries.

19 DEC, 1930-Amelia Earhart becomes first woman to pilot an autogiro.

20 Dec., 1928-Pioneer high latitude aviation Carl Eielson and Australian explorer George Wilkins started the first aerial survey in Antarctica in a Lockheed Vega.

21 DEC, 1964-First Flight of the General Dynamics F-111 Aardvark.

22 DEC, 1964-First Flight of the Lockheed SR-71A.

23 DEC, 1907-Army Signal Corps issues specifications for the first U.S. military aircraft.

24 DEC, 1937-First Flight of the Mario Castoldi designed Macchi C.200 *Saetta* (Lightning).

25 DEC, 1946, Reports from China indicate that 72 people have been killed in four separate commercial transport crashes while trying to land in coastal fog at Shanghai.

26 DEC, 1917-The National Bureau of Standards tests the National Advisory Committee's new altitude chamber designed to run engine experiments at 1/3 atmospheric pressure.

27 DEC, 1942-First Flight of the Kawanishi N1K-1 *Shiden*, a Japanese fighter.



*Shiden (Violet Lightning) to the Imperial Japanese Air Force but George to the Allies.*

28 DEC, 1967-First Flight of the first production Hawker-Siddeley Harrier.

29 DEC, 1939-First Flight of the Consolidated XB-24 Liberator.



*The B-24 was the most produced U.S. aircraft in WW II. This is a B-24J formerly of the Indian Airforce, now at the Pima Air Museum, Tucson.*

30 DEC, 1939-First Flight of the prototype Ilyushin IL-2 Shturmovik. Over 38,000 were produced, the largest number of a single type of military aircraft ever produced.

31 DEC, 1926-The first Air Commerce Regulations by the Aeronautics Bureau of the Department of Commerce become effective. They cover aspects of licensing, registration of aircraft, and safety.