



*The
Daedalean*
Semper Discens

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

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OUR SIXTH YEAR OF PUBLICATION

SCHEDULE

18 MAY-Commander's Cup Rocketry Competition

7-8 JUN-CTWG Encampment Staff Training

21 JUL-03 AUG-NESA-Camp Atterbury, IN

27 JUL-CADET Ball-USCGA

10 AUG to 17 AUG-CTWG Encampment

SQUADRON AEROSPACE NEWS

***Squadrons are requested to submit monthly notes
on their aerospace activities.***

***143rd Composite Squadron
Waterbury***

Cadets from the 143rd flew both powered and glider orientation flights during the last month. Six cadets received powered instructional flights and seven cadets flew back seat rides. Glider flights were conducted at the Northeast Regional Glider Center at Springfield, Vermont.



*C/CMSgt Alec
Beliveau lands a
glider in
Springfield, VT.*

***Thames River Composite Squadron
Groton***

TRCS supported the Cub Pack 21 Rocket Launching Activity on 06 April in Washington Park, Groton.

The Squadron installed a mount for an antenna which will eventually be used to receive weather data from the GOES-East weather satellite.



Mr. Jack Santo starts digging. The concrete base is just visible in the right foreground.

Three members of the Squadron attended the Connecticut State Rifle and Revolver Association Junior High Power Clinic where they received instruction and fired the AR-15 match rifle on the 200 yard range.

Three cadets flew powered and sailplane orientation flights on 21 April. Their trip to Springfield, Vermont was in a CAP Cessna 182 flown by Maj Noniewicz. The outbound trip was broken into two segments and two cadets flew right seat. After completing the glider training in

Vermont, the third cadet flew right seat on the homebound leg.



*Cadets O'Toole and Meers
hook up glider while Cadet Ray
waits in the cockpit.
(photo by Lenny Kimball)*

CTWG STAFF OPENING IN AEROSPACE

The Aerospace Education Section of the CTWG is looking for candidates to fill the post of External Aerospace Education Officer.

Although the position involves working with the AE staff in promoting and assisting aerospace education projects in the greater community, the incumbent will also assist in internal AE activities within the wing. The position will be tailored to the special skills, interests, and available time of the successful candidate.

Ideally, the candidate should have completed the Aerospace Education Program for Senior Members and hold an AE rating of Technician or greater and have some background in aerospace topics and teaching. A state professional educator's certificate would be a plus as would an FAA CFI or Ground Instructor certificate.

Applicants are invited to submit a resume with a list of qualifications and background experience to: srocketto@aquilasys.com.

AE REPORT TO WING FOR APRIL

Each month, the DAE submits a report of current AE activities at the CTWG Staff Meeting. What follows is an extract from the March report:

1. Survival Systems has agreed to support activities at the CTWG 2013 Encampment.
2. McGuire AFB has notified the Wing that due to budgetary restrictions, all KC-10 orientation flights have been cancelled.
3. The summer Rifle Safety and Marksmanship program has been fully funded.
4. The search for an officer to fill the position of External Aerospace Education Officer of for the Wing continues.
5. Requests have been posted to the 143rd Airlift Wing and the 1109th TAMSG for support for the 2013 CTWG encampment.

COMMANDER'S CUP ROCKETRY COMPETITION

CATO has agreed to support our contest at their monthly meeting, Saturday, 18 May. The rain date is Sunday. A set of rules follow:

Every squadron will supply one judge.

Flight 1: Tyro Cadets will build an Estes Alpha or Quest Astra 1 decorated in a Civil Air Patrol Theme. The entry will be judged on construction, finish, and flight. Each Tyro Cadet in a Squadron may enter one rocket. A Tyro Cadet is a Cadet who has never participated in the Wing contest. (CAVEAT-The Alpha is the model with balsa fins. Do not order the Alpha III with plastic fins.)

Flight 2: Load Bearing or Multistage Rocket

Flight 3: Historic Air Vehicle

Judging will be based on construction and finish. Finish points will be based on sanding, contouring of fins, joins of fins to fuselage, and alignment of fins. Finish will be based upon quality of paint application, neatness of decal or marking application, and appropriate markings and colors.

Squadrons are responsible for purchasing rockets, engines, igniters, and wadding.

Captain Ken Fortes and the Stratford Eagles have announced that they will support a “free style” competition on the day of The Commander's Cup. Contact Capt Fortes at kcfortes@gmail.com for information.

NATIONAL AEO SCHOOL

The 12th Annual National AEO School will take place from June 25-29, 2013, at Pensacola NAS, FL. As many of you know, this is a wonderful opportunity for AEOs to learn more about the AE programs, projects, and resources available to them. For more information about the program, go to www.capmembers.com/ae

AEROSPACE CURRENT EVENTS

Waverider Achieves Mach 5



*X-51A and its Booster on B-52 Launch Rail
(USAF Photo)*

The USAF Research Laboratory reports a successful test of the Boeing X-51A Waverider scramjet. The unmanned vehicle broke Mach 5 on its 01 May test flight. The vehicle is powered with a Pratt & Whitney SJX61 dual-mode ramjet/scramjet engine. The test, which occurred off the California coast utilized a B-52H mother ship and a booster from an Army MGM-140 tactical missile.

Volcanic Dust Avoidance System Under Development

Volcanic dust has always been a hazard to aircraft operations. The silica compounds emitted by erupting volcanoes is extremely abrasive and can not only damage engines but also craze windshields. The volcanoes located on the northern edge of the mid-Atlantic ridge, in the vicinity of Iceland is particularly hazardous since much of the European, Asian, and North American flight routes transit that region. Costs be high.

For example, in April of 2010, ash from Iceland's Eyjafjallajökull volcano caused 100,000 flight delays and cost the airlines 1.7 billion dollars in a one week period!

The test, to be run in late summer, employs one aircraft operating at 30,000 feet to deploy a cloud of a ton of volcanic dust gathered from an Icelandic volcano. A second aircraft equipped with the infra-red Airborne Volcanic Object Identifier and Detector (AVOID) system will attempt to detect the dust cloud and fly around it.

AEROSPACE HISTORY

May 10, 1961-The Convair B-58A wins the Bleriot Trophy when it becomes the first aircraft to maintain 2000 km/hr for more than 30 minutes over a closed course.



B-58A Hustler, First Supersonic Bomber of the USAF

May 11, 1941-Deputy Fuhrer Rudolph Hess defects to Scotland in a Messerschmidt Bf110.

May 12, 1926-The Italian semi-rigid airship, Norge, flies over the North Pole. The ship is commanded by Umberto Nobile. Lincoln Ellsworth is second-in-command and Roald Amundsen is expedition leader.

May 13, 1940-First free flight of the Sikorsky VS-300 at Stratford, CT with its revolutionary anti-torque tail rotor.

May 14, 1931-Noted aviator Charles Kingford Smith pilots an Armstrong Argosy carrying the first airmail from Australia to England.

May 15, 1918-President Woodrow Wilson inaugurates the first domestic airmail. A Curtiss JN-4H is tasked with the Washington to New York flight.



Our first airmail carrier, a Curtiss JN-4H at Olde Rhinebeck Aerodrome.

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First Day Cover-Inaugural US Domestic Airmail The Air Mail Monument in Bellefonte, Pennsylvania, once a stop on the transcontinental route. The Bellefonte High School now occupies the site of the airfield. The Monument can be found on the grounds of the American Philatelic Society which is headquartered in Bellefonte.

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Details of the tail rotor on the VS-300 exhibited at the Henry Ford Museum, Dearborn, Michigan.

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May 16, 1919-Lt. Cmdr. A. C. Read captains the Curtiss NC-4 on the first trans Atlantic flight from Newfoundland to Horta in the Azores and thence to Portugal. Three aircraft, NC-1, NC-3, and NC-4 started. NC-2 had been damaged earlier and cannibalized for parts. The aircraft departed from Rockaway, NY and flew to Halifax and thence to Trepassy, Newfoundland. The US Navy stationed 21 destroyers along the route as navigation aids and plane guards. N-1 landed at sea and sunk but the crew was rescued. NC-3 landed at sea and badly damaged, sailed into Ponta Delgada in the Azores. NC-4 made it to Horta and then to Lisbon, El Ferrol, Spain and finally, Portsmouth, England, The total time taken-23 days! Flight time exceeded 26 hours.



Curtiss NC-4 Berthed at the USN's Naval Aviation Museum, Pensacola, Florida

May 17, 1916-A Bristol Scout C piloted by M.C. Day is launched from a Baby flying boat piloted by J.C. Porte marking the first time one airplane is launched from another.

May 18. 1966-Sheila Scott, piloting a Piper Comanche, becomes the first woman to make a successful round the world solo flight.

May 19, 1939-The USN contacts for the Curtiss SB2C Helldiver.

May 20, 1927-Charles Lindbergh wins the \$25,000 Orteig Prize when he becomes the first man to solo the Atlantic flying from New York to Paris in 33h 29m.

May 21, 1977-An Air France Concorde celebrates the 50th anniversary of the Lindbergh flight by flying the same route, New York to Paris, in 3h44m.

May 22, 1928-Samuel D. Heron, a Wright Field engineer, receives the first patent for sodium filled engine valves.

May 23, 1967-First flight of the Hawker-Siddeley Nimrod, a maritime patrol and anti-submarine version of the Comet IV.

May 24, 1962-Lt. Cmdr. Scott Carpenter aboard Aurora 7 becomes the second US citizen to orbit the earth.

May 25, 1953-First flight of the North American F-100 Super Sabre.



CTNG F-100s light off on takeoff at Westfield.

May 26, 1942-First flight of the Northrop P-61 Black Widow.



NACA Black Widow at Udver-Hazy

May 27, 1927-The Chief of Naval Operations orders the Commander of the Battle Fleet to commence experiments with dive bombing.

May 28, 1926-The design of the Distinguished Flying Cross is approved.

May 29, 1934-The Collier Trophy is awarded to the Hamilton Standard Propellor Corp. for the development of the controllable pitch propellor.

May 30, 1958-First flight of the Douglas DC-8.



Antigua Caribbean Air DC-8

May 31, 1862-Thaddeus S. C. Lowe, balloon pioneer and grandfather of Pancho Barnes, assists the Union army at the Battle of Fair Oaks by warning them of an approaching Confederate force.