



## ***The Daedalean*** **Semper Discens**

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

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Director of Aerospace Education  
CTWG*

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### **CALENDAR**

12 APR-SAT-SAREX  
26 APR-SAT Wing Convention  
28 APR-5 May-USAFA Graded Training Event  
10 May-SAT-ACUT  
21 JUN-SAT Wing Rocket Competition  
04 JUL-13 JUL-Wing Cadet Encampment  
21-22 JUL-AIAA Aerospace Conference-Hartford

### **WING ANNUAL REPORTS**

The Wing Annual Report has been submitted to National and Regional Headquarters. Unfortunately, only six of our twelve squadrons submitted their annual report to me so the data does not fully reflect the activities of our Wing. A brief summary of the 2007 statistics follows:

Yeager Awards: 19  
Units Visited by Wing AEO: 4  
Programs in State Schools: 6  
Programs to Outside Organizations: 1  
Units Participating in AEX: 1  
Units Participating in Model Rocketry: 6

The following six units honored their obligation to submit reports: Silver City, 169<sup>th</sup> Composite Squadron, Danbury, Royal Charter, Danielson, and Thames River.

### **PROFESSIONAL DEVELOPMENT**

The Wing Congratulates the following Officers and Cadets who completed Wing sponsored professional development courses in 2007.

*Squadron Leadership School:* Capt Michael Berlin, 1Lt Robert E. Cartier, 2Lt Marc B. Conway, Cadet Cody Harris, 2Lt Andrew Madison, SM Blake Mantel, SM Thomas H. McAvoy, 2Lt, Tim A. McCandless, SM Stephen B. Moretti, 1Lt Joseph Palys, Valerie M. Ricchiuti, 2Lt Patricia Sterling, Capt Jose D. Trujillo, 1Lt Audrey Tucker

*Corporate Leadership Course:* Captain Michael Berlin, 2Lt Patricia Sterling Brezcinski, Capt Meghan Brownell, 1Lt Tim Ceritello, 1Lt Edward Conway, 1Lt Arthur Dammers, Sherry McSherry, Capt Joseph Palys, Capt Stephen Rocketto, Capt Brian Romano, Capt Bruce Roy, Joseph Testman, and Capt William J. Wholean.

### **SHEA APPOINTED WING EXTERNAL AEO**

Capt Kevin Shea of the Royal Charter Composite Squadron has accepted the post of Wing External Aerospace Education Officer. Capt Shea's main duty will be to act as liaison between CTWG and profession educators who seek affiliation or assistance from CAP.

### **WING INTERNAL AEO NEEDED**

The Wing is searching for a volunteer willing to fulfill the post of Internal Aerospace Education Officer. The applicant for this post will and assist in activities which promote aerospace education within the Wing. The main duty will be to promote the Aerospace Education Program for Senior Members. Volunteers should contact Steve Rocketto at [srocketto@aquilasys.com](mailto:srocketto@aquilasys.com)

## **RIFLE SAFETY AND MARKSMANSHIP PROGRAM**

The Friends of the National Rifle Association have awarded a grant of \$710 to the Wing in order to continue the Rifle Safety and Marksmanship Program for the next year. The Quaker Hill Rod and Gun Club will underwrite expenses until the FNRA monies are received.

At the present time, five squadrons have received training: Silver City and Thames River at Quaker Hill and Royal Charter, the 103<sup>rd</sup>, and C.K. Hamilton at Bell City.

Danielson and Manchester are scheduled at Pachaug Outing Club on March 1<sup>st</sup>. Stratford will fire at Bridgeport Rifle Club on 10 April.

Requests have been sent to Torrington Rifle Club, Silver City Rifle Club, Metacon Rifle Club, and East Haven Rifle Club for facility support.

We expect to run those squadrons which have not had an opportunity for fire through the program in the spring.

## **CSRRA AR-15 RIFLE CLINIC**

The Connecticut State Rifle and Revolver Association will host a high power rifle clinic at the Bell City Rifle Club on 19 April at 0830 at Bell City Rifle Club. The Wing has been invited to participate and will provide instructors and coaches. Participating cadets will be given an introductory safety lesson. learn about the opportunities to compete, and fire the AR-15 match rifle at 200 yards. A demonstration of a rapid fire match will be given by members of the nationally ranked Connecticut Junior High Power Team.

If your Cadets are interested in attending, contact one of the following:

Brad Palmer	860-649-4446
Jim Castonguay	860-738-2954
Randy Bieler	203-272-1725

## **WING CONFERENCE**

Squadron AEOs are reminded that a number of Cadet activities are scheduled for the Wing Conference.

Each Squadron is encouraged to supply two displays. The aerospace display will be a presentation on "the history of rocketry." The theme of the second display will be "safety."

Although the competition for the Commander's Cup in Rocketry is scheduled for June, one item must be presented at the Wing Conference for judging. This is the historical rocket which will be flown in June.

Cadets will also compete in a speech contest and an informal drill-off.

A new contest will be conducted. Cadets will, as a Squadron, take a timed test on rocketry which will consist of material contained in the Rocketry Manual which must be learned to meet the requirements for the Redstone, Titan, and Saturn stages of the award: Redstone Stage (pp. 6-9) Titan Stage: (pp. 30-33) Saturn Stage (pp. 56-63). An additional set of questions testing general knowledge of the history and theory of rocketry will be used to break ties. Note, the Squadron will take this test as a group with as many Cadets participating as desired.

## **AEROPACE EDUCATION CONFERENCE SCHEDULED FOR HARTFORD IN JULY**

The American Institute of Aeronautics and Astronautics and Pratt & Whitney will sponsor a two day aerospace education conference in Hartford on 21-22 July. A similar conference sponsored by the AIAA and General Electric was held in Cincinnati last year. CTWG AEOs are encouraged to attend. More information will be forthcoming as it becomes available.

## YEAGER AWARDS



The Wing congratulates the following Officers and one Cadet who earned the Yeager Award in 2007.

103<sup>rd</sup> Composite Squadron: Capt Arthur Dammers, Capt Bruce Roy

143<sup>rd</sup> Composite Squadron: 1Lt Ed Conway, 2Lt Marc Conway, 1Lt Tim McCandless, Capt Joseph J. Palys, LtCol Anthony Vallillo, Jr.

Silver City Cadet Squadron: C/2Lt Ashley N. LaPlante

CT Minuteman Composite Squadron: SM Giorgio Mugno, SM Jason D. Pampena

Thames River Composite Squadron: 2Lt Justin Allison, 2Lt Steven V. Heard, 1Lt Willi Lintelmann, Capt Paul Noniewicz, LtCol Thomas Wisheart, 2Lt Robert W. Wilkins, 2Lt Robin Wojtcuk

## MEMORIES OF MARCH'S PAST

01/1912-Capt. Albert Berry makes the first successful parachute drop from an aircraft at St. Louis.

02/1952-First Flight of Piper PA-23 Twin Stinson, predecessor of the Apache and Aztec.

03/1959-Pioneer 4, the first U.S. solar orbiter is successfully launched.

04/1936-L.Z. 129, Hindenburg, launched and flown at Friedrichshafen under command of Dr. Hugo Eckner.

05/1913-The 1<sup>st</sup> Aero Squadron, U.S. Army's first aviation unit, is organized.

06/1918-First Flight of Curtiss-Sperry Flying Bomb, predecessor of the cruise missile and UAV.

07/1963-First Flight of Hughes OH-6.



*Hughes OH-6 Cayuse  
"The Loach"*

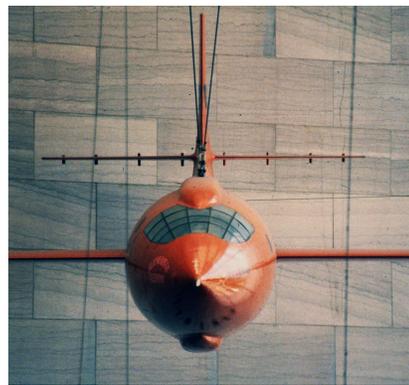
08/1910-Baroness Raymonde de Laroche is first woman to be issued pilot's license.

09/1949-First Flight of the Avro Shackleton, maritime patrol and anti-submarine aircraft.



*Avro Shackleton*

10/1948-Herbert H. Hoover, NACA test pilot flying Bell X-1, becomes first civilian to exceed speed of sound.



*Bell X-1*

11/1933-U. S. Navy airship Macon, ZRS-5, christened by Mrs. William A. Moffett.

12/1966-Sir Sidney Camm, designer of Hawker Hurricane and Kestrel, forerunner of Harrier, goes west.

13/1959-Naval Research Laboratory's Aerobee-Hi rocket obtains first UV photographs of the sun.

14/1945-Biefeld Viaduct becomes first target for Barnes Wallis's 22,000 lb Grand Slam bomb.

15/1916-1<sup>st</sup> Aero Squadron, under Capt. Benjamin Foulois, joins Pershing's punitive expedition into Mexico in pursuit of Pancho Villa.

16/1966-Neil Armstrong and David Scott successfully dock Gemini 8 with Agena module.

17/1947-First Flight of North American XB-45 Tornado, the first U.S. production jet bomber.



*B-45 Tornado*

18/1945-First Flight of Douglas XBT2D-1, prototype of the classic A-1 Skyraider.

19/1989-First Flight of Bell-Boeing V-22 Osprey.



*Osprey Number One Flight Test Aircraft*

20/1922-U.S.S. Langley, CV-1, is commissioned at Norfolk, Virginia.

21/1916-*Escadrille Americaine*, forerunner to Lafayette Escadrille, formed in France.

22/1948-First rocket tested at Weapons Research Establishment, Woomera, Australia.



*Woomera Town Square*

23/1964-Gus Grissom and John Young fly first U.S two man spaceship, Gemini 3, into orbit.

24/1961-August Piccard, pioneer in high altitude ballooning and deep diving submersibles, goes west.

25/1955-First Flight of the Vought XF8U-1 Crusader.



*Redesignated Vought F-8K Crusader showing variable incidence wing*

26/1932-First Flight of the Consolidated XP2Y-1 Admiral.

27/1968-Col. Yuri Gagarin goes west in crash of MiG-15 near Moscow.

28/1941-Eagle Squadron becomes operational.

29/1958-Clyde Pangborn, who with Hugh Herndon, crewed first non-stop flight from Japan to the United States, goes west.

30/1937-Flying a Sikorsky S-42, Capt. E.C. Musick and crew complete survey flight for Pan American from Pago Pago, American Samoa to Auckland, N.Z.

31/1912-The week-long first world's hydroplane competition ends in Monaco.

## **WING PLAN OF ACTION** **AEROPACE EDUCATION**

The Wing Plan of Action for Aerospace Education has been approved by Col. Jensen. The basic philosophy of the Wing is that each Squadron can best decide what its own interests and strengths are and direct its activities to achieve its chosen goals. The Wing will endeavor to encourage and support Squadron activities and provide resources within the guidelines of CAP policy and the limitations of Wing resources. The Wing Plan of Action for Aerospace Education follows:

### **Major Goals**

1. Manage the Aerospace Program as defined by CAP regulations, pamphlets, and policies.

2. Continue visiting each of the CT squadrons annually in order to study their best practices and canvas them for new ideas.
  3. Develop relationships with external agencies and organizations to promote the CAP program. These agencies include but are not limited to local town school systems, the CT Section of the American Institute of Aeronautics and Astronautics, the CT Science Teacher Organization, The CT Association of Physics Teachers, the New England Air Museum, veteran's organizations, fraternal organizations, the Department of Transportation, CT Chapter of the Air Force Association, the Federal Aviation Agency, Scouting and business organizations, and other groups with allied interests.
  4. Find and appoint suitable individuals to fill the posts Internal AEO and External AEO.
  5. Seek candidates for major CAP aerospace educational awards and honors.
  6. Provide longer lead times for educational projects such as the Rocketry Program and Wing Conference displays.
  7. Analyze pilot programs as described below and if successful, provide guides for other squadrons.
  8. Develop a cataloged lending library of books, periodicals, and media
  9. Continue and expand citrus fruit fund raiser.
  10. Publish a monthly newsletter for Aerospace Education Officers.
2. Canvas the squadrons and determine who is participating in the AEX program. Encourage participation by providing guides, resources and references.
  3. Continue the firearms safety and rifle marksmanship program within the Wing to those squadrons or cadets interested in participating. Initial funding and cooperation have already been promised by the Friends of the NRA and key firearms clubs.
  4. Collect best practices from the various squadrons and disseminate them to the AEOs.
  5. Follow up and continue the Rocketry Program instituted in 2006
  6. Continue Wing Orientation Flight Program.

#### **Internal Aerospace Education**

1. Determine how many officers have completed the Aerospace Education Program for Senior Members (Yeager Award).
2. Establish a format to encourage study by those officers who have not completed the AEPSP. This will probably take the form of a guide to the steps necessary to secure the award and helpful references.
3. Determine the track ratings of those holding AEO offices and encourage advancement. This will probably take the form of suggestions on how to complete various requirements at each level of the career track.
4. Train more AEOs. Ideally, each cadet squadron should have two officers competent in aerospace. This depth of
5. personnel provides necessary relief for a single incumbent and a resource for replacement when necessary. A weekend or evening training session will be offered for AEO training.
6. Offer a seminar for Aerospace Education Officers at the Wing Conference.

#### **Cadet Aerospace Education**

1. Canvas the squadrons and determine the status of those cadets who entered the rocketry program in 2006. Provide encouragement to complete the program by making material support available and running a Second Annual Commander's Cup Contest among the squadrons.

## External Aerospace Education

1. The DAE and two AEOs will present a workshop at the CT Science Educator's Annual Conference in October.
2. The DAE and one AEO will present a workshop at Tyl Middle School in 2008.
3. The Thames River Composite Squadron will pilot a program in which aerial digital imagery will be recorded for all schools in Groton and Montville. The imagery will be transferred to disc and sent to the respective Boards of Education with a request to make a presentation about CAP's mission and the advantages offered to educational institutions by participation.
4. The Thames River Composite Squadron and the Royal Charter Squadron are each working with elementary and middle schools and piloting two different programs. Thames River is using the AEX with elementary students and Royal Charter is offering a series of seminars which discuss vocational opportunities in aerospace.

## Summary

The 2008 year will be a further period of learning, organization, and experimentation. The primary focus will be exploring the possibilities inherent in the program, providing a sense of ownership in the program to the practitioners, and extending the mission of CAP to the greater community.

## The 2008 CTWG PATROL ROCKETRY CONTEST FOR THE COMMANDER'S CUP

Tentative Dates: June 21, Rain Date June 22

Durham Fair Grounds, Whites Farm Co- Launch with CATO.

Three (3) Rockets will be entered per squadron as described below.

### *I. An Historical Rocket.*

The rocket will be of historical importance. It may either be scratch built or kit built but it must be powered by a D engine or less.

The rocket will be judged on historical accuracy and quality of construction. Allowances will be made for required stabilization (fins & launch lug) equipment for flight.

In addition, a one page (type size 12 font) write up of the rocket and its historical significance will be submitted for judging. This rocket report must be a squadron (team) effort, not simply one individual's effort

This Rocket, it's write up and the team are due for judging at the wing conference. (April 26th). This rocket will still need to be flown at Durham.

### *II. A Scratch Built Rocket (Squadron Designed)*

The Following parameters will be used:

1. Powered by a B6-4 Engine
2. Minimum of 16 inches Tall
3. Minimum of Four Fins
4. Parachute Recovery
5. Decorated with a SQUADRON theme

ONLY appropriate NAR certified materials (no paper towel tubes) will be used.

### *III. An Estes Alpha (non plastic fins)*

This rocket will be built by a Cadet who is new to the CAP Rocketry Program this year (2008) and who did not compete in the 2007 contest and has not completed the 2nd phase of the CAP Rocketry Program (Titan) as of 31 December, 2007. The rocket will be painted with a "Civil Air Patrol" theme of the participant's choice.