



***The
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Semper Discens

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

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CALENDAR

06 SEP-CT National Guard Family Day
07 SEP-Westover ARB Great NE Air Show
13 SEP-Wings Over Westerly
18 SEP-Birthday of the USAF
19-21 SEP-Westfield CAP Rocket Contest
27-28 SEP-Squadron Leadership School
16-18 OCT-Nat'l Conference on A/S Education
18-19 OCT-Corporate Learning Course
25 OCT-Cadet Ball
25 OCT-ACUT-Middletown
15 NOV-BCUT-Middletown
22-23 NOV-Unit Commanders Course
06-07 DEC-Training Leaders of Cadets Course

MAGAZINE GIVEAWAY

A large number of aviation magazines have been left a Wing Headquarters and are free for the taking. They are located just outside the lavatory on the fourth floor. The list includes *Flying*, *AOPA Pilot*, *Air Force*, *Smithsonian Air and Space*, *Sport Pilot* and *Aviation Week and Space Technology*.

**WESTFIELD COMPOSITE SQUADRON
ROCKETRY CLASSES AND ROCKET
CONTEST**

The Westfield (MA) Composite Squadron will hold a weekend bivouac on 19-21 September. Classes will be conducted for all stages of the Rocketry Program and contests will be held for spot landings, maximum altitude, maximum time of flight, best scratch built rocket, and best historic rocket. Five meals will be provided. Cost is \$25 to cover food, t-shirts, and trophies. Contact Maj Jim Pacitti at pacitti7055@charter.net.

**NATIONAL CONFERENCE ON AVIATION
AND SPACE EDUCATION (NCASE)**

The 39th Annual NCASE event is scheduled for October 16-18. The conference will host a wide range of speakers and workshops. The speaker list includes Astronauts Buzz Aldrin Bonnie Dunbar and Janice Voss. Ken Blackburn, a Guinness World Record Book holder for flying paper airplanes and author of popular books on the subject will also speak.

Captain Rocketto, the CTWG DAE, will be driving down to Arlington, VA on Thursday and returning on Saturday night and will supply transport at no cost for up to four CAP members.

Basic conference early registration is \$159. Banquet fees are an additional cost. Lodgings at the Marriott are approximately \$50-\$75 per night depending on how many share a room. If we can get four people to share, your minimum cost is about \$250.

Information about obtaining a free registration is available on the website. For more information, go to <http://www.ncasse.info>.

PROFESSIONAL DEVELOPMENT COURSES OFFERED

The Wing Professional Development Officer, Major Oestreicher, is offering a series of courses this fall. These include Squadron Leadership School and Corporate Learning, Unit Commanders, and Training Leaders of Cadets courses.

Course descriptions and requirements follow:

Squadron Leadership School – SLS – September 27/28 (0900 – 1700 both days) For officers to learn about the work done at the Squadron level

Requirements for attendees: As outlined in CAPR 50-17, the student must complete a CAP Form 17, have his/her unit commander sign and date it, and forward it to Lt Col Oestreicher. Students must have completed Level 1, must be in one or more Specialty tracks, and pay the attendance fee of \$25.00.

Corporate Learning Course – CLC – October 18/19 (0900 – 1700 both days) For senior members to learn about the work done at the Wing level.

Requirements for attendees: As outlined in CAPR 50-17, the student must complete a CAP Form 17, have his/her unit commander sign and date it, and forward it to Lt Col Oestreicher. The student must have completed Level 1, be currently enrolled in one or more specialty tracks, and have previously completed Squadron Leadership School. The student must also pay the attendance fee of \$25.00.

Unit Commanders Course – UCC – November 22/23 (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. Present Unit Commanders are required to attend this course as stated by the Wing Commander. The student must have completed Level 1, be currently enrolled in one or more specialty tracks with at least a Technician level in one, and have previously completed a Squadron Leadership School. ECI-13 is preferred but not required. Students must pay the attendance fee of \$25.00.

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 of \$25.00.

All courses 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.

All courses 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.

FUND RAISING/AEO SEMINAR HELD

The Director of Aerospace Education hosted a Fund Raising and Aerospace Education Officer Seminar at Wing Headquarters in Middletown on 13 August. AEOs from Silver City, Stratford, C.K. Hamilton, and Thames River attended.

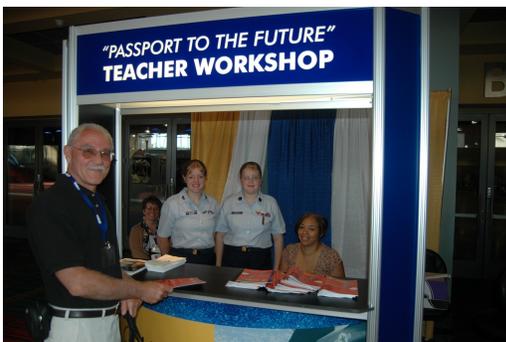
Each participant was presented a packet of information about successful fund raising and engaged in a discussion about methodology

A series of demonstrations focused on aerospace education topics was also presented. These topics included Newton's Laws of Dynamics, the internal combustion engine, and the Bernoulli principle.

In addition, each participant was also given a bag of DVDs, CDs, brochures, and booklets which contained aerospace education resources which might be used to enhance the program at their home squadron.

PASSPORT TO THE FUTURE AEROSPACE EDUCATIONAL CONFERENCE

Capt Rocketto and Cadets Lexie and Abi Wojtcuk attended the 44th Annual Joint Propulsion Conference of the American Institute of Aeronautics and Astronautics held at the Connecticut Convention Center in Hartford this week. They supported the workshop presenters and assisted at the registration desk.



The Staff registers Stu Sharack, our AEM from the Juliet Long School in Ledyard.

During their time at the conference, they attended a wide variety of activities. Dr. Ian Halliwell of AVTEC presented two seminars; one on aircraft design and one on turbine engine design. Tim Worthy, representing the Society of Automotive Engineers, ran two hands-on workshops. One of them was construction of gliders and the other a gear driven ground vehicle. These two workshops

were both designed to provide paradigms of the engineering design and development process. A series of other programs focused on teaching astronomy, robotics, rocketry, and infrared astronomical observations.

Dr. Mark J. Lewis, Chief Scientist of the USAF, delivered the Keynote Address on the second day. He traced the history of the Air Force's long term interest in advanced technology from Billy Mitchell's cadre of young officers, chief among them Hap Arnold. When Arnold became the Commanding Officer of the Army Air Forces, he instituted a number of programs and selected Dr. Theodore von Karmen, arguably the greatest



Lexie and Abi pose with Dr. Lewis

aerodynamicist of the twentieth century to chair the Scientific Advisory Group, initially to exploit captured German technology but with a mandate to explore future possibilities. The Rand Corporation, the expansion of the responsibilities of facilities such as the Wright-Patterson complex, and close relationships with academic institutions such as MIT's Lincoln Labs soon followed, all of which have given the USAF technological dominance in the air/space theater of warfare.

Dr. Lewis also addressed problems which face the Air Force today. Stealth technology, Unmanned Aerial Vehicles, and the development of new sources and kinds of fuels were discussed. Of especial interest was the possibility of vehicle fuels based on coal or hydrogen

The sociology of the Pentagon was another topic touched upon by Dr. Lewis. He had to learn how to interact with senior officers given the different protocols of their military and his academic backgrounds. Whereas academics are informal and more or less permanently ensconced in their positions, the Air Force rotates Officers on a two to four year schedule. As a result, they not only get a broad-based vision of the Service but also get to develop a robust network of personal relationships within the officer corps.

General Arnold's legacy to the USAF is its commitment to advanced technology. Lewis says that "The Air Force is about the future" and that is why it is committed to education since it depends so much upon a competent, skilled workforce.

The main social event was a reception for participants at the New England Air Museum. A light buffet was followed by free time in the museum. A "scavenger hunt" was held and the contestants were tasked with answering a number of questions about some of the exhibits. Cadet Abi Wojtcuk won, posting 27 correct answers out of thirty possible answers.

MEMORIES OF SEPTEMBER'S PAST

01 Sept., 1975-General Daniel "Chappie" James, Jr., USAF, becomes the first Black promoted to four star rank in the U.S. military.

02 Sept., 1933-Noted Italian long distance aviator Francesco, the Marchese of Pinedo goes west when his Bellanca crashes and burns on takeoff at the start of his attempt to set a new New York to Baghdad record.

03 Sept., 1908-The Army acceptance trials for its first aircraft, a Wright Flyer, commences at Ft. Myers, Va.

04 Sept, 1922-Lt James Doolittle sets an new transcontinental airspeed record flying from Florida to California in a DeHavilland DH-4B in 21 hr 19 min.

On the same date in 1931, Doolittle repeats the feat, flying from California to New Jersey in a Laird LC-DW500 Super Solution in 11 hr 16 min.

05 Sept, 1919-Off the coast of Vancouver Island, British Columbia, aircraft are used for the first time to hunt whales.

06 Sept., 1942-A Yokosuka E14Y-1 is launched twice from a submarine off the US west coast and drops bombs in the vicinity of the California-Oregon border starting several small forest fires.

07 Sept, 1931-The *Graf Zeppelin* completes a round trip flight between Friedrichshafen, Germany and Pernambuco, Brazil.

08 Sept., 1943-The first flight of the DeHavilland Comet, specifically designed for the England to Australia air race, progenitor of the extraordinary Mosquito of World War II and namesake of the first jet airliner.

09 Sept, 1959-The Atlas ICBM becomes operational.

10 Sept., 1929-A solar eclipse is studied from the air for the first time using a U.S. Navy aircraft.

11 Sept., 1919-The stickless, spin stabilized Hale rocket, which replaced the Congreve rocket immortalized in The National Anthem is declared obsolete by the British War Office.

12 Sept., 1925-President Calvin Coolidge appoints to Morrow Board to assess methods of using aircraft for the national defense.

13 Sept., 1961-An unmanned Mercury-Atlas vehicle is launched in a test of NASA hardware.

14 Sept., 1938-The LZ-130, the *Graf Zeppelin II*, a Hindenburg class airship is christened by Dr. Hugo Eckener. The United States refuses to supply helium so the hydrogen filled craft never enters commercial service but is used by Nazi Germany for propaganda and to survey the British Chain Home radar network.

15 Sept., 1916-An Austrian flying boat bombs and sinks the French submarine *Foucault* in the Adriatic Sea. This is the first time a submarine has been destroyed by an aircraft. The Austrian aviators then land their craft and rescue the survivors.

16 Sept., 1931-The Ludington Line, using the Lockheed Electra, commence passenger operations on a New York-Philadelphia-Washington, DC route.



Trans Canada Airlines Lockheed 10 Electra

17 Sept., 1908-Lt. Thomas E. Selfridge is the first U.S. military officer killed in an aviation accident during acceptance trials of the Wright Flyer at Ft. Myers, Va. Orville Wright is seriously injured.

18 Sept., 1984-Joe Kittinger lands his helium filled balloon, the *Rosie O'Grady*, in Savona, Italy. He departed from Caribou, Me, on 14 Sept. This achievement is the first balloon solo of the Atlantic Ocean.

19 Sept., 1911-H.H. Bales of Ashcroft, British Columbia files the first patent for JATO.

20 Sept., 1904-Wilbur Wright performs the first 360 degree turn in a heavier than air, man carrying flying machine.

21 Sept., 1964-First flight of the North American XB-70 Valkyrie.



Valkyrie at National Museum of the USAF

22 Sept., 1938-Air service is inaugurated between Tel Aviv and Beirut by Palestine Airways using a Short Scion.

23 Sept., 1910-Jorge Chavez, a Peruvian aviator who lived his whole life in France becomes the first man to fly an aircraft over the Alps from Switzerland to Italy. Fatally injured when he crash lands his Bleriot XI, his last words, "Arriba, mas arriba! (Higher, ever higher!) becomes the motto of the *Fuerza Aerea del Peru*.

24 Sept., 1958-The first claim of victory for the heat seeking Sidewinder missile is made by the Nationalist Chinese. In air battles over the Formosa Straits, they claim their F-86s downed 10 MiGs flown by the People's Republic of China.

25 Sept., 1929-A 10,000 mile air mail route from The Netherlands to The Netherlands East Indies is launched. Twelve days are required for the round trip.

26 Sept., 1939-First flight of the North American NA-73, soon to be immortalized at the P-51 Mustang.

27 Sept., 1965-First flight of the Vought YF-7A Corsair II.



NMANG Corsair II

28 Sept, 1954-The People's Republic of China announce that they tested their first indigenously produced aircraft on 26 July. Best sources indicate this is the Nanchang CJ-5, a licensed built copy of the Yak 18, NATO code name Max.

29 Sept., 1918-The British dirigible R.29 bombs the German submarine U.B. 115 and then directs naval forces to perform the final destruction of the ship.

30 Sept., 1949-The Berlin Airlift officially ends.



*Berlin Airlift Commemorative Douglas C-54
Skymaster
framed by its successor, the C-17 Globemaster III
McGuire AFB, 2007*