



The Daedalean Semper Discens

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

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CALENDAR

13 August-Fund Raising Seminar-Beers Hall
08-10 Aug-Danielson ES Bivouac
10-17 Aug-MAWG Encampment
21 Sept-Simsbury Fly-In
27-28 Sept-Squadron Leadership School
16-18 Oct-NCASE
17-18 CT Wing Conference
18-19 Oct-Corporate Learning Course
22-23 Nov-Unit Commanders Course
6-7 Dec-Training Leaders of Cadets Course

FUND RAISING/AEO SEMINAR

The Director of Aerospace Education will host a Fund Raising and Aerospace Education Officer Seminar at Wing Headquarters in Middletown on 13 August commencing at 1900.

Over the last year, Capt Rocketto has raised approximately \$5,000 dollars for Thames River and the Wing. He will discuss the fall citrus fruit fund raiser, Air Force Association Grants, the Wal-Mart Community Grants program, and corporation matching grants. An information packet will be provided to assist your squadron in

their fund raising efforts.

The DAE will also present information to AEOs and listen to their ideas about teaching aerospace and the report and record keeping issues. AEOs who attend will be given a packet of teaching material and aerospace souvenirs.

Squadrons interested in participating should send one or two representatives to the meeting. They should be prepared to share their fund raising and aerospace education ideas with their colleagues.

YEAGER AWARD



Cols Richard Doucette and Thomas McAvoy and Lt Christopher Manner of Thames River and Lt Joseph Provost of Danielson have successfully completed the Aerospace Education Program for Senior Members. The achievement requires completion of a test of 100 questions on aerospace history, aerodynamics, meteorology, astronomy, aviation organizations, spacecraft, and the air traffic control system. Col Doucette scored 99!

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.

The DAE will be driving down to Arlington, VA on Thursday and returning on Saturday night and will supply transport at no cost to 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>.

DANIELSON EMERGENCY SERVICES **JULY TRAINING BIVOUAC**

The Danielson Composite Squadron ran another successful Emergency Services Training Bivouac at their airport campsite and practice area.

The event is one of a series organized and run by the Danielson Composite Squadron under the leadership of Col Provost and Major Flynn. Cadets and Officers from six squadrons attended: Danielson, Manchester, Royal Charter, Waterbury, C.K. Hamilton, and Thames River.

The training covered many aspects of ground team methodology at all levels, from beginner to Ground Team Leader. Activities included use of the signal mirror, whistle signals, search lines, use of the E-LPER, stretcher techniques, and day and night compass exercises.



Chow Line

At the same time, Capt Noniewicz of Thames River led a two sortie training session for Scanners and Observers. Scott Farley, Tom McAvoy, Chris Manner, and Bill Bridgewater. The sorties included preflight preparation, grid, sector, and ELT searches, and post flight debriefing. The Danielson ground unit activated a training beacon and set out some emergency ground to air signals in the vicinity of Danielson Airport. Both sorties successfully located the beacon and correctly interpreted the ground signals although Capt Rocketto was disappointed when the requested air drop of rifles and ammunition was not made.



L-PER Instruction

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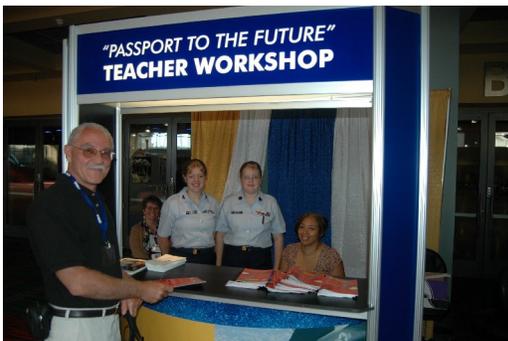
Maj Flynn and Captain Rocketto also experimented with using a hand held aircraft transceiver as a radio direction finder. Using body shadowing techniques and frequency offsets, they were able to home in on the practice beacon located about a half mile away. Their next experiment will be to build a small directional antenna for the transceiver.



Chief Molinari Commands Stretcher Team in a Lifting Exercise

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.

RENTSCHLER FIELD DEDICATED AS HISTORIC AEROSPACE SITE

The American Institute of Aeronautics and Astronautics held a ceremony in the Pratt & Whitney Museum Hangar and designated the former company airfield as an Historic Aerospace Site. The field was named after Frederick Rentschler, the founder of the Pratt & Whitney Aircraft.

Capt Rocketto, who sits on the Council of the Connecticut Section of AIAA attended as a CAP representative.



Steven Finger, P&W President, Caroline d'Otreppe, NEAM, Capt Rocketto, Mark Sullivan, author of P&W history, David Hobbs, Chair, CT Section, AIAA, Dr. Timothy Wagner, Past Chair

MEMORIES OF AUGUST'S PAST

01 AUG, 1907-Today is the 100th anniversary of the establishment of the Aeronautical Division of the U.S. Army Signal Corps, forerunner of the United States Air Force.

02 AUG, 1909-The U.S. Army purchases its first airplane from the Wright Brothers for \$30,000.

03 AUG, 1921-Lt. John A. McCready, USAAC, engages in crop dusting experiment against caterpillar infestation.

04 AUG, 1901-Octave Chanute arrives at Kill Devil Hill to photograph Wright glider experiments.

05 AUG, 1943-The Women's Auxiliary Ferrying Service (WAFS) is amalgamated with the Women's Flying Training Detachment (WFDT) to form the Women Airforce Service Pilots (WASP).

06 AUG, 1946-The Enola Gay drops the first atomic bomb on Hiroshima.

07 AUG, 1928-First Flight of the Curtiss Model 50 Robin.



Curtiss Robin flown by the Key Bros. when, in 1935, they set a still-standing world endurance record of 27 hours.

08 AUG, 1946-First Flight of the Consolidated XB-36.



B-36 Peacemaker-Note the open forward dorsal gun turret.

09 AUG, 1956-First Flight of the Fiat G.91.



Displayed in the colors of the Italian Precision Flying Team, Frecce Tricolori, this aircraft was once evaluated by the U.S. Army as a close ground support aircraft.

10 AUG, 1896-Aviation pioneer Otto Lilienthal goes West after experimental glider crash. According to legend his last words are "*Opfer müssen gebracht werden.*" (Sacrifices must be made.)

11 AUG, 1915-Eastman Kodak and U.S. Naval Observatory collaborate on aerial camera development.

12 AUG, 1957-Lt. Commander Daniel Walker flying a Douglas F3D Skynight successfully alights on the U.S.S. Antietam in the the first test of an automatic carrier landing system.



U.S.MC. Skynight-Korean War Night Fighter

13 AUG, 1940-Adler Tag (Eagle Day) The Luftwaffe commences what Churchill calls the Battle of Britain. This was the first major campaign in history fought entirely between opposing air forces.



Hurricane vs. Heinkel



14 AUG, 1919-An Aeromarine West Indies Airways flying boat transfers mail to the White Star liner RMS Adriatic shortly after the ship had departed New York.

15 AUG, 1957-General Nathan F. Twining becomes the first USAF officer to serve as Chairman of the Joint Chiefs of Staff.

16 AUG, 1960-Capt. Joseph William Kittinger II sets records for the highest parachute jump and the longest delayed jump when he departed from the balloon Excelsior III at an altitude of 102,800 feet. In the thin upper atmosphere, his vertical speed exceeded 600 mph.

17 AUG, 1943-The Eighth Air Force sends 376 bombers to attack the Messerschmitt works at Regensburg and the ball bearing industry at Schweinfurt. Weather conditions cause a delay in launching the Regensburg force and the *Luftwaffe* is able to concentrate its attacks. Approximately one third of the force is shot down or damaged beyond repair.

18 AUG, 1960-A C-119 makes the first aerial recovery of a returning artificial satellite payload when it snags the Discoverer 14 capsule. The Discoverer Project was a cover for the

Corona Project, a military reconnaissance program using what became known as the "Keyhole" satellites to photograph denied areas.

19 AUG, 1871-Orville Wright is born.

20 AUG, 1910-Glenn Curtiss pilots a Curtiss biplane accompanied by Lt Jacob Earl Fickel who, over Sheepshead Bay, Brooklyn, becomes the first man to fire a Springfield rifle at a target on the surface.

21 AUG, 1923-The first illuminated airway, Chicago-Iowa City-North Platte-Cheyenne, is activated.

22 AUG, 1938-The Civil Aeronautics Act becomes effective and the Civil Aeronautics Authority is created, the forerunner of the FAA.

23 AUG, 1954-First Flight of the Lockheed YC-130 Hercules.



*City of
Ardmore,
First
Production
C-130
Dyess AFB*

24 AUG, 1956-The first non-stop transcontinental rotary wing flight occurs when the U. S. Army flies a Piasecki H-21 Shawnee from San Diego to Washington, D.C. The flight took 37 hours.

25 AUG, 1932-Amelia Earhart becomes the first woman to fly non-stop across the United States accomplishing the feat in a Lockheed Vega.



The Winnie Mae, a Lockheed 5B Vega similar to Earhart's craft, was flown by Wiley Post and navigated by Harold Gatty on record world flight and later used for stratospheric research.

26 AUG, 1976-The first women enter USAF pilot training.

27 AUG, 1910-James A. McCurdy, flying a Curtiss biplane transmits and receives messages with Harry M. Horton, Sheepshead Bay, Brooklyn.

28 AUG, 1972-Capt Steve Ritchie becomes the first USAF ace since the Korean War and one of the three USAF aces to earn the title in the Vietnam conflict. The other two were both Weapons Systems Officers flying in the back seat of the McDonnell F-4. Capt Charles DeBellvue was partnered with Ritchie on four of his kills and his total of six make him the top ace. Captain Jeffrey Feinstein is credited with five.

29 AUG, 1970-First Flight of the Douglas DC-10.



Douglas KC-10 Extender

30 AUG, 1960-First Flight of the NAMC YS-11.



LANSAN Nihon YS-11 landing at Arequipa Peru

31 AUG, 1956-First Flight of the Boeing KC-135.



*Boeing KC-135
Stratotanker*

MAGAZINE GIVEAWAY

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