



Missions for America

Semper vigilans!

Semper volans!

The second phase of the paper airplane lesson was devoted to improved designs. A series of flights were held behind the trailers to determine the best designs.

Publication of the Thames River Composite Squadron
Connecticut Wing
Civil Air Patrol

<http://ct075.org>

300 Tower Rd., Groton, CT
LtCol Stephen Rocketto, Editor
srocketto@aquilasys.com
Maj Scott Farley, Publisher
Maj Roy Bourque, Paparazzi
Hap Rocketto, 2nd Lt, AUS, (ret'd.)
Capt Edward Miller, Feature Writers

Issue 12.25

26 June, 2018

MEETING MINUTES

26 June, 2018

Cadets

Lt Michael Kopycienski explained the advantages of the J-pole antenna which cadets learned to build at the Amateur Radio Relay League Field Day on Saturday.

Lt Kopycienski holds up the J-pole antenna which will increase the range of the portable radio held by Cadet Burton.



Mass Launch



Above Left: C/CMSGT Ramsey launches while Cadet Williams looks on. Above Right: Cadet Martin beseeches the Air Gods for lift observed by Cadets Burton and Wischman.

Below Left: Cadets Shaffer and Kirkpatrick cock their launchers. Below Right: Cadet Wischman hurls his mega-glider aloft.



Seniors

Maj Farley conducted a calendar review.

Lt Pineau briefed the officers on the upcoming squadron's subordinate unit inspection scheduled in the fall.

Capt Miller briefed the squadron on the latest news about the Long Island Sound Patrol flights.

A squadron open house was discussed and opinions ran to holding it on a Saturday rather than on a meeting night.

AEM RACHAEL MANZER ATTENDS NATIONAL STEM SUMMIT

Rachael Manzer, a CTWG Aerospace Education Member and teacher at the Winchester Public Schools, has been invited to attend the first-of-its-kind State-Federal Science, Technology, Engineering and Math (STEM) Education Summit hosted by The White House Office of Science and Technology Policy (OSTP) on June 25-26, 2018, in Washington, D.C.



Manzer Congratulated by Major General Gary C. Dean, Commander, First Air Force at 2010 CAP National Conference

Alongside OSTP in planning and carrying out this Summit are the National Science Foundation, the U.S. Department of Education, the U.S. Department of Labor, and the Smithsonian Institution. STEM leaders from all 50 states, as well as U.S. territories and tribes, will attend the Summit to illuminate and advance State-Federal

STEM alignment.

Manzer is a teacher and a Civil Air Patrol Aerospace Education Member. She has received numerous awards in aerospace education including CAP Aerospace Educator of the Year Award, A. Scott Crossfield Aerospace Teacher of the Year Award from the National Aviation Hall of Fame, AIAA Foundation Educator Achievement Award, and two NASA Group Achievement Awards. She was one of seven teachers selected to fly in space on a commercial spaceflight with the Teachers in Space Program.

Lt Col Stephen Rocketto, Director of Aerospace Education, CTWG stated that Rachael will be an asset to the program. "She has worked closely with the Wing and been very active in promoting CAP ACE and CAP AEX programs at the elementary school level. Whenever called upon, she volunteers to assist state programs from serving as an encampment speaker to serving as a judge at the Wing's Commander's Cup Rocket Contest."

According to the OSTP, the State-Federal STEM Education Summit will convene a diverse group of State STEM leaders, including officials from governors' offices, K-20 educators, workforce and industry representatives, State policy experts, and non-government organization executives. These attendees will participate in the development of a new Federal 5-Year STEM Education Strategic Plan in compliance with America COMPETES Act of 2010.

"This event is the first time an administration has asked for this level of State input when developing a Federal STEM education strategy," said Jeff Weld, senior policy advisor and assistant director for STEM education at OSTP. "Top-down approaches to STEM education can often yield wonderful ideas, but it's at the State and community level where the momentum happens. State leaders know best what kinds of programs will work in their communities, and where they need the power of the Federal government to help drive success in this field. STEM education is critical to preparing our students for the jobs of the

future. We must do everything we can to ensure that Federal, State, local, and tribal governments, communities, educators, and private industry partners are united for the long-term success of our Nation.”

PROMOTIONS AND ACHIEVEMENTS

Major John Peske met the standards set by the Aerospace Education Program for Senior Members and earned the Yeager Ribbon.

Capt Robert Guilliams has received the Technician Rating in the Cadet Programs and Chaplain's Specialty Tracks

Cadet Sr/A Elizabeth Burton's award winning rockets were mounted on a stand and presented to her by 1st Lt Kopycienski, the leader of the Commander's Cup Rocket Team.



2d Lt Michael Kopycienski was promoted to 1st Lieutenant.



INFORMATION AND RECRUITING PRESENTATION

On June 20th, Lt Col Larry Bright met with the RSVP Veterans Coffee House in Norwich and offered a talk on CAP history, organization, resources and mission. Approximately 40 veterans and Thames Valley Council for Community Action attended.

TRCS MEMBERS GET RADIO TRAINING

*submitted by
1st Michael Kopycienski*

Cadets Rhys Thornell, Luis Trinidad, and Elizabeth Burton and Lts Jennifer Thornell and Michael Kopycienski attended the Amateur Radio Relay League Field Day over the weekend. The event is a nationwide exercise during which the ARRL members attempt to contact as many other operators as possible within a 24 hour period. One of the hams reported 58 contacts in the first hour!

They also visited the Department of Emergency Management and Homeland Security's Emergency Communications Unit trailer which is equipped with a lot of top of the line communications equipment and is ready to move to any large scale emergency site at a moments notice.

The TRCS group then moved into the historic Jordan House where host Tom Scott, an ARRL instructor conducted a training session.

The cadets spent 3 hours turning wire into J-pole antennas that can be used to increase their radios ability to connect with the net. They worked with

knives, wire cutters, wire strippers and a soldering iron to convert wire into an antenna. The crucial step is tuning the antennas to the desired frequency, which takes a little time and patience using an antenna tuner as small adjustments are made by changing the length of the antenna wire.

The final step will be to adapt the antennas to our handheld radios and will be completed at a CAP meeting. The final product will be a light, compact antenna which can be carried by a ground search team and easily deployed.

AEROSPACE CHRONOLOGY

June 27, 1950– A USAF North American F-82G Twin Mustang scores the first aerial victory in the Korean Police Action shooting down a North Korean Yak-9. The Twin Mustang was flown by William Hudson and Carl Fraser served as radar operator.



F-82G night fighter of the 68th F(AW)S as flown by Lt Hudson and Fraser. The protuberance between the twin fuselages housed the radar and associated electronics

Lt Fraser's snapshot of the Yak-9 going down.



June 28, 2012 – A retreating glacier on the slopes of Mount Gannett in Alaska reveal the wreckage of an Air Force Douglas C-124A Globemaster which had been lost 60 years earlier.



C-124A at the pre-tornado New England Air Museum

The site had been found six days after the crash by noted mountaineer and scholar Terris Moore of the Fairbanks Civil Air Patrol and Lt. Thomas Sullivan from the 10th Air Rescue Squadron but had been lost when drifting snow and avalanches covered the wreckage.

An Alaska National Guard Blackhawk helicopter spotted debris at the foot of the Colony Glacier, some 12 miles from the crash site. Ground teams were dispatched and evidence secured at the site confirmed that the remnants were from the missing aircraft. The recovery operation was run by the Joint POW/MIA Accounting Command and the remains of 17 of the victims were found and returned to their next of kin.

Recovery Team working the debris field at the foot of the Colony Glacier.



A similar incident revealed the fate of the British South American Airlines Avro Lancastrian *Star Dust*.



Star Dust-The Lancastrian was the famous Lancaster bomber converted to meet airline standards.

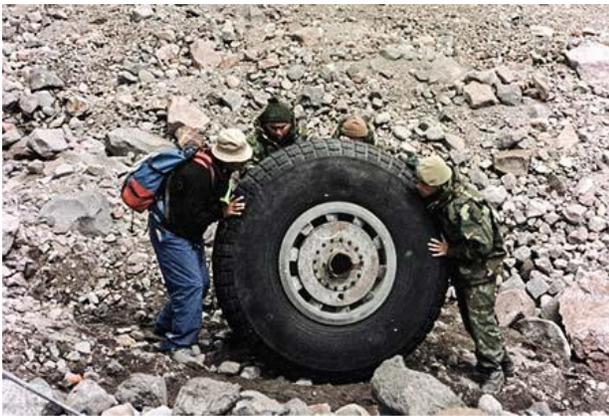
(Credit: Charles Daniels Collection/San Diego Air Museum)

Star Dust disappeared on the night of August 2nd, 1947 on a flight from Buenos Aires, Argentina to Santiago, Chile. As has come to be expected, the conspiracy theorists and UFO zealots promoted theories ranging from sabotage to alien abduction.

In 1998, a half century after Star Dust's disappearance, two Argentine mountaineers found wreckage identified as belonging to a Rolls-Royce Merlin engine on Mount Tupungato.



Two years later, an Argentine Army expedition found a localized debris field which included a propeller and aircraft tire. Further searching found human remains. DNA testing identified the bodies of five of the eight British victims.



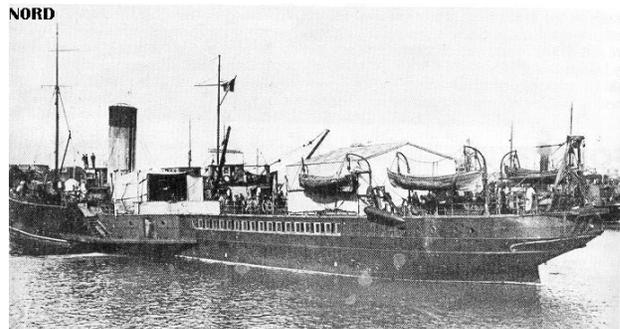
June 30, 1972 – The crew of Soyuz 11, Georgi Dobrovolski, Viktor Patsayev and Vladislav Volkov become the only fatalities in space. The three cosmonauts were returning to earth but faults in the system which separated their reentry capsule from the service module jars a valve in their capsule opens and the reentry vehicle depressurizes. The reentry is normal and when the recovery team opens the capsule, they are shocked to find all three dead of asphyxiation. The Soyuz is redesigned to carry only two cosmonauts which

allows them to wear space suits during reentry.



Crew of the ill-fated Soyuz 11: (L-R) Commander Dobrovolsky Test Engineer Patsayev, and Flight Engineer Volkov. (Image credit: NASA)

July 1, 1915– The French Navy seaplane carrier *Pas-de-Calais* is commissioned. She is the first paddle steamer to serve as an aviation vessel. A small hanger and hoisting gear were fitted on the deck. The aircraft complement consists of three seaplanes.



Nord, sister ship of the Pas-de-Calais. The rudimentary hangars and lifting gear are visible just aft of the stack.

The aircraft were probably Nieuport Type VI-G, mid-wing monoplanes. They had twin pontoons equipped with small planes to prevent porpoising and stepped keels to aid in breaking free of the water. A unique feature was a crank in the cockpit which wound a spring which could be used to start the engine.



The Nieuport VI was a sport airplane adopted by the French Navy to patrol for German submarines.

The French Navy had six these aircraft and it is likely that the Pas-de-Calais's sister ship, Nord, carried three of them

July 2, 1919 – The British dirigible R34 scores a double first. She is the first airship to cross the Atlantic Ocean and the first aerial east-to-west crossing. The four day crossing departed from East Fortune, Scotland and landed at Mineola, New York.

The aircrafts, designed as a warship, lacked the amenities of a passenger ship. Accommodations consisted of hammocks and a plate welded to an engine exhaust pipe to heat food!



R34 Landing at Mineola

A crew member, William Ballantyne, had been ordered to stay behind to save weight. He stowed away with a kitten named Whoopsie. A double first: the first trans-Atlantic aerial stowaway and the first feline to cross the Atlantic by air.

The ground landing party had no experience handling large rigid airships so Major J. E. M. Pritchard parachuted onto the landing ground to organize the group party. Pritchard becomes the first person to reach America by air.

Later, Pritchard was in charge of flight testing of the ill-fated R.38. He warned against conducting sharp turning tests at low altitude but his advice was ignored. On its fourth test flight, the R.38 broke it back and plunged into the Humber

Estuary, killing 44 of the 49 aboard. Pritchard's body was not recovered.

On July 10th, the R.34 taking advantage of the prevailing westerlies, returned to RNAS Pulham in a 75 hour flight.

July 3,1973 – American engineer and inventor Lauren Hammond dies at age 78 in Cornwall, Connecticut. Hammond held 110 patents, the most well known being the Hammond organ.



Hammond at the Hammond.

During World War Two, he worked to develop guided missile control systems and steering systems using light sensing and infrared technology. A typical example is the GB-5C which used a Hammond-Crosley light sensing device and Hammond gyros. The airframe was built by Aeronca. *GB-5C Glide Bomb*

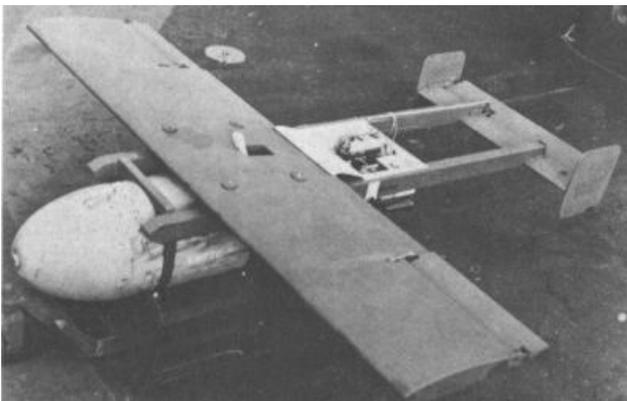
(Credit; Ordway/Wakeford)

Most of the U.S. glide bomb experiments were unsuccessful. About 15 years ago, the Editor and his brother interviewed Jack Watson, the leader of the flight of B-17s which flew into Yankee Stadium during the 1943 World Series. His unit, the 303rd Bomb Squadron had received special training to employ the GB-1 weapon.



GB-1 release during training in Florida

The bomb was designed as a stand-off weapon allowing the bomber to release the bomb before coming within range of enemy flak concentrations. In addition, the hope was that the bombing would be more accurate and that the shallow angle at which the bomb struck would cause more destruction. This hope was wishful thinking.



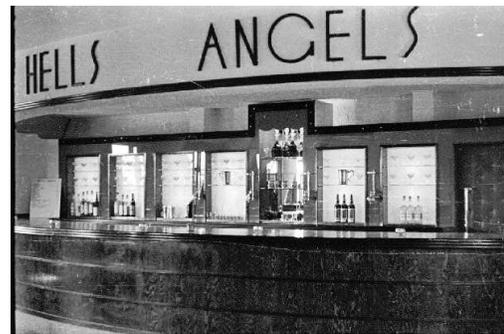
*The GB-1 was known as the "Grapefruit Bomb."
Note the crudeness of the wooden airframe and wings.*

(Credit: Ordway/Wakeford)



*Two GB-1s carried beneath a B-17.
(Credit: Flying Review)*

Watson noted that the weapon was rarely used an ineffective but the wooden cases which they were shipped in were salvaged and used to build a first class bar for the officer's club.



*Hells Angels Officers Bar, Moleworth, England
It's Good to Be an Officer!*

(Credit: Leonard M. Brown/303rd Website)

CALENDAR

- 04 July-Groton Parade
- 14-15 JUL-SLS Windsor Locks
- 21 JUL-Celebrate East Lyme
- 30 JUN-1 AUG-SAREX Plainfield
- 04 AUG-Stonington Village Fair
- 4-5 AUG-CLC Windsor Locks
- 11-18 AUG-CTWG Encampment
- 19 AUG-National Aviation Day-Groton
- TBD SEP=SUI
- 22 SEP-Preston Scarecrow Festival
- 25 SEP-Fruit Sale Starts
- 29 SEP-Glider Flights-Springfield, Vt.
- 06 OCT-Groton Fall Festival
- 11-12 OCT-UCC
- 11-14-CTWG/NER Conference
- 10 NOV-Cadet Ball
- 25 DEC/01 JAN-No Meetings