



*Missions for
America*

*Semper
vigilans!*

Semper volans!

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Squadron
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SENIOR MEETING

07 June, 2020

Staff Meeting

Public Affairs Officer Lt Col Rocketto reported the successful broadcasting on Groton TV of the TRCS segment of Groton's virtual Fourth of July Parade.

Finance Officer Lt Col Doucette announced the appointment of a new CTWG Administrator. A report was made that the suppliers of our annual fruit sale merchandise will be setting up a system of mail order sales.

Cadet Deputy Commander Lt Thornell announced the availability of on-demand drill and leadership tests.

Communications Officer Lt Kopycienski announced that 91% of the seniors and 65% of the cadets have achieved ICUT qualifications, the best in CTWG.

Aerospace Education Officer Lt Col Rocketto announced that 33 of our 34 officers have qualified for the Yeager Award, the best in CTWG.

Capt Johnson reminded officers of the deadlines for refreshing qualifications eligibility.

Maj Bourque encouraged participation in the upcoming CTWG training exercise in Danielson.

Lt Richardson reported that the summer and fall festivals and fairs at which TRCS exhibited have been cancelled.

Operations Officer Maj Noniewicz reminded air crews about the CTWG virtual conference on operating the G1000 MFD on Wednesday.

Lt Spreccace reviewed the attendance requirements which must be met for promotion.

A potential member and pilot, Sam Dangremond was introduced. Mr. Dangremond is enrolled in his third year of law school.

CADET MEETING

08 July, 2020

Lt Docker reviewed Col Ridley's plan for remobilization of the CTWG.

Lt Richardson displayed a sample of the new TRCS Facebook page and discussed details of operation and maintenance.

Lt Thornell showed a leadership video and ran a Socratic discussion about the differences between a good leader and a great leader.

Cadet Olivia Busher briefed the cadets on the CTWG basic and advanced Cyber-Patriot camp which she and cadets J. Busher and Bosse attended. They learned some fundamentals of security programming and will compete in a wing-wide and national contest in the future.

REPORT ON WEEKLY OPERATIONS AND ACHIEVEMENTS

Lt Kopycienski assisted by Rob Burton and Cadet Burton has completed the top facing on the supply trailer.



Over the weekend, Lts Ceniglio, Thornell, and Kopycienski were trained by Maj Bourque in GTM2 techniques involving map and compass over the weekend.

C/CMSgt Elizabeth Burton achieved her GTM2 qualification this weekend. She now joins Maj Roy Bourque as one of only two GTM2 qualified members in the squadron.

PROFILE

*Capt Edward Miller
Aeronautical Engineer, Senior Observer, and
Model Builder Extraordinary*



Capt Ed Miller has been a member of TRCS for fourteen years and is a senior observer. But he has had a long time career as an aviation professional. He holds a degree in Airplane Design from the College of Aeronautics and has worked for both Grumman Aerospace and Sikorsky Aircraft.

While at Grumman he contributed his expertise to both the Luna Module and the OV-1 Mohawk. His work at Sikorsky included design components of several marks of the UH-60 Blackhawk and experimental work on the ACAP (Advance Composite Aircraft Program) and the RSRA (Rotary System Research Aircraft X-Wing).



The X-Wing (Credit: NASA)

The ACAP used S-76 dynamic components and an composite airframe structure which incorporated Low Observables Technology (Stealth) in the fuselage configuration. The RSRA /X-Wing was designed to hover as a helicopter and then transition to a fixed wing aircraft with the rotor head locked in place.

When he was 10 years old Miller had a "bucket list" of goals: become an aeronautical engineer, a pilot, make a parachute jump and drive a single seat open cockpit, open wheel race car. Over a half century, he has emptied the bucket. He holds a private pilot certificate, once was a partner in a Beech Debonair and took a course in aerobatics in a Mudry CAP 10, drove and jumped.



(Credit" Miller Collection)



Ed is an enthusiastic builder of model aircraft, almost all 1/72 scale and painted with the colors and identification numbers of an actual aircraft. Most of the models start from kits but for scratch built and modified models he relies on plastic sheet, body putty and a spare parts box. The collection exceeds 400 and he states that "I am getting to the point where I should be building shelves rather than models." Many of his models have been used in TRCS displays at CTWG and NER conferences.

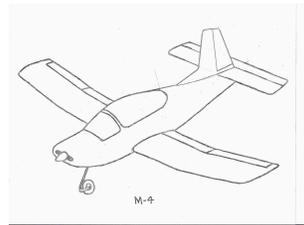


Models representing lend-lease aircraft sent to Great Britain, the Soviet Union, and Nationalist China in WWII



The Editor's Favorite: French marked C-119 Flying Boxcar flown by Earthquake McGoon and Wallace Buford when they was shot down the day before Dien Bien Phu fell during the First Indochina War.

But he is not limited to models only. At present Ed is designing an all-metal two place tandem seating aircraft powered by a 150 hp Lycoming. The preliminary weight and balance analysis, the performance analysis and the air and landing loads analyses have been completed. The estimated cruise and to speeds are 125 and 150 mph respectively.



Sketch of the M-4

Ed is only one of the talented squadron members who contribute their time, energy, and skills to the CAP mission. and his vocation and advocations can serve as models for our cadets.

AEROSPACE CHRONOLOGY FOR THE WEEK

July 8, 1941 – For the first time, the Boeing B-17 raids Europe. The RAF send out three of their 20 lend-lease B-17Cs which they designated as the Fortress I to bomb naval barracks at Wilhelmshafen.



RAF Fortress I

The sortie was an unescorted daylight mission from Polebrook. One aircraft developed engine trouble and bombed an alternate. The other two Fortresses released their bombs from 30,000 feet with nil success. All planes returned successfully to base.

July 9, 1991- A Grumman KA-6D is at 8,000 feet and six miles abeam of the USS Abraham Lincoln when an un-commanded partial ejection leaves Bombardier-Navigator Lt. Keith Gallagher leaves him stuck in the canopy, his head and shoulders in the slipstream and his body in the cockpit. The aircraft is a Grumman KA-6D off the *USS Abraham Lincoln*. His parachute is streaming behind, wrapped around the vertical stabilizer.

Lt. Mark Baden, the pilot, immediately returns to the ship and lands safely. It is Lt. Gallagher's birthday and the landing was his 100th trap aboard a carrier. A unique way to celebrate your natal day.



(Credit: USN)

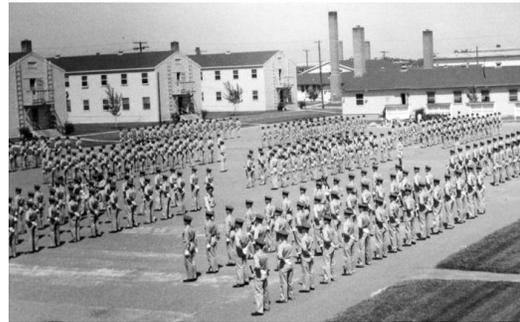
July 10, 1968 – Russia has always been known for construction very large aircraft. Sikorsky started the tradition with the *Russky Vityaz* and the *Ilya Muromets*, four engine behemoths, the largest in the world at that time. The tradition extends to rotary craft when Mil constructs the Mil V-12, known by its NATO reporting names as "Homer."



The aircraft is 122 feet long and the distance across the rotors is 220 feet. The wingspan is

comparable with Lockheed's C-5 Galaxy, the largest air-lifter in the USAF inventory. They were designed to transport ballistic missiles from the manufacturer to their launch site but mission requirements changed and only two were built.

July 11, 1955 - The USAF Academy is dedicated at its temporary site, Lowry AFB in Denver. The class of 306 cadets were housed in WWII barracks but transferred to Colorado Springs in August of 1958 where they finished their senior year.



July 12, 1944 – The only allied jet fighter to become operational in World War II, the Gloster Meteor entered service with RAF 616 Squadron which was equipped with 14 F.1s. The Squadron first saw action on July 27th and their primary mission was destruction of the German V-1 "Buzz Bombs."



In August, 616 Squadron trained with the 8th Air Force. Flights of Meteors would make mock attacks on formations of B-17 and B-24 bombers escorted by P-51 Mustangs. The primary objective was to develop tactics to protect the formations from attacks by the German Me-262 jet fighter.

July 13, 1919 – The RAF airship R.34 arrives back at RNAS Pulham after completing the first round-trip trans-Atlantic flight and the first crossing from east to west.



R.34 in England

R.34 left Pulham on July 2 and arrived at Roosevelt Field, Mineola, N.Y on July 6th after a 108 hour flight. The airship was not intended to accommodate passengers so a make-do sleeping arrangement was jury-rigged and hammocks were slung from frames along the keel.

Major G.H. Scott of the RAF commanded. After take-off and too late to turn back, a stow-away, William Ballantyne, was discovered, another first.

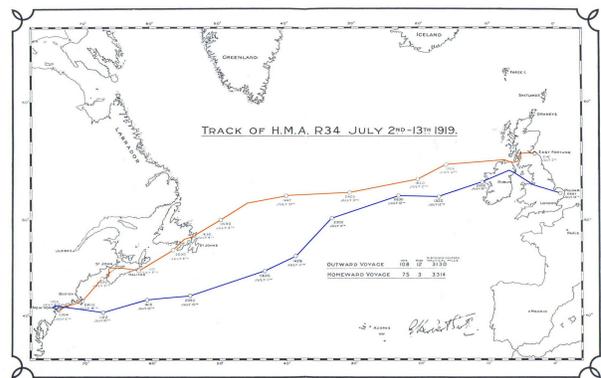
No experienced ground crew awaited them so Maj. E. M. Pritchard parachuted down to organize the landing party!



RS.34 on the ground at Mineola
(Credit: Library of Congress)

Displaying classic RAF elan, Pritchard, the R.34 executive officer landed in full uniform carrying his swagger stick. Appropriately attired he became the first person from Europe to arrive in the United States by air .

On July 10th, R.34 departed Mineola, circled Times Square on Manhattan Island and returned to Pulham in 75 hours with the aid of the prevailing westerly winds.



July 14, 1948 – Six DeHavilland Vampire F.3s of No. 54 Squadron become the first jet aircraft to cross the Atlantic Ocean.



Led by Wing Commander D.S. Wilson-MacDonald they head for Montreal, refueling at Stornoway in the Outer Hebrides, Keflavik, Iceland, Blue West One on Greenland and Goose Bay, Labrador.