

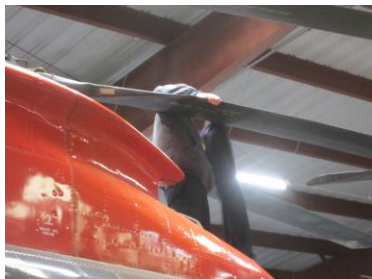
Hangar Happenings for March, April and May 2021



Repairing DL-125 gear



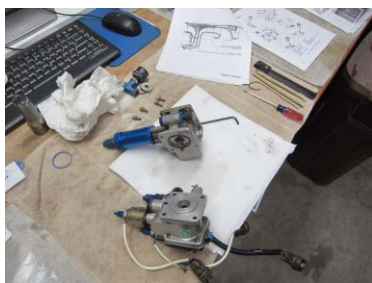
Polishing DL-125 eng cover



Cleaning H-46 rotor blades



H-46 APP fuel control



APP fuel control O-rings

Rotorheads

Hard to believe that summer is already half over; seems like it was February just yesterday. So I was just overcome by events in the spring. One thing leads to another and now I find myself outside of Pittsburgh, but finally enough time to get to the Happenings. Even though I was OBE things were still accomplished at the museum. Work was accomplished on the DL-125, H-46, H-37, H-1 and HRP as well as tours, infrastructure and some other interesting things.

I'm giving the diminutive **De Lackner DL-125 Cloud Buster** top billing this time. The DL-125 (known as Buster) has undergone major transformative work since this little 1940's vintage helicopter was dug out of the East Texas mud less than two years ago. Buster has been cleaned, de-corroded, painted and given new appendages. It is quite literally a Cinderella story. This period saw Buster's landing gear fixed. A restored wheel for the gear is ready for

installation awaiting a part that needs to be machined. The cockpit windows which have been in place for a while will be fully installed in the next Happenings. Reconstruction work has been underway on both the nose and tail, part of which was polishing the engine cowling during this time. It really looks beautiful and the whole aircraft is taking shape nicely.

The majority of the work this time was on the **Boeing Vertol HH-46E Sea Knight** known as Pedro. After the rotor blades were cleaned, the radio wiring harness

was cleaned, the radio wiring harness



DL-125 landing gear fixed



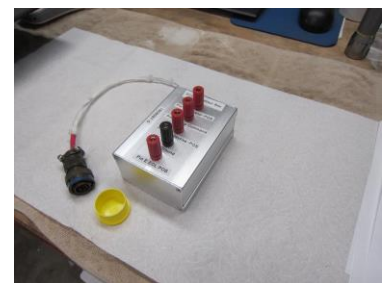
DL-125 eng cover shined up



Making the H-46 radio harness



H-46 radio installed



H-46 ECCS test box



Assembling the LCTA test box



Removing the eng chip plugs



Wiring the HRP external power



Manifold pressure transmitter



Pitting in Huey ground wheels

was completed and the radio installed. New rubber bumpers were installed on the "hell hole" (the hatch over the cargo hook) and an APU (Auxiliary Power Unit also called the APP) fuel control leak was fixed. Test boxes were built for the ECCS (Engine Condition Control System) and LCTA (Longitudinal Cyclic Trim Actuators), which will be used to check these parts. The construction of these test boxes was extremely involved, intricate and time consuming. I wish I had the space to show the process rather than just the final result. The engine fuel hoses were removed for overhaul and the engine chip detectors were inspected and cleaned.

On the **Piasecki HRP Rescuer**, the external power wiring was completed. The battery was checked and then turned on with the voltage indicating on the cockpit instrument gauge, probably the first time in 60 or 70 years. The engine manifold pressure transmitter was installed and wired up. The **Bell HH-1N Twin Huey** ground handling wheel cylinder pitting was repaired and honed out and a hydraulic leak was repaired. The Pratt & Whitney



HRP battery



LCTA test box ready to use



Engine fuel hoses removed



HRP voltage gauge and light

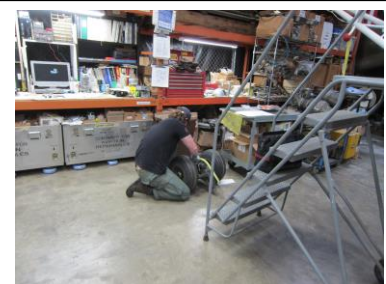


Wiring the manifold press trans



Cylinder honing

T-400 twinpac engine for the Huey arrived and is positioned under the tailboom as part of the display. The plan is to put the engine into the Huey engine compartment with the compartment cowling off so you



Repairing Huey hyd leak

can see how it's installed. There is an additional cut-away single T-400 that will be placed on a stand at floor level.



P&W T-400 twin-pac engine



Scouts working on roof



New CR T- shirt back



Fixing the golf cart



Workshop cleaning

The major outside project was to complete the **Garage/Storage Shed Roof** on the north side of the hangar. The shed goes from the street fence all the way to the front of the hangar. The structure supports were finished and the roof about 2/3 finished with the help of San Diego Boy Scout Troop 170. It was done as an Eagle Scout project and will be completed in the next Happenings. In another project, a new **Classic Rotors T-Shirt** was designed and produced. The new shirts arrived in April and are available in sizes small, medium, large and extra-large. The shirt is a pocket T-shirt with the Classic Rotors logo and six helicopters on the back and the CR logo on the pocket. The plan is to include a store feature in the new website where the shirts and hats can be purchased for \$20 each.

In the infrastructure area, the **Golf Cart** was fixed up and sold and one of the **Trailers** was fixed and painted. The trailer was the same one we had transported the Air & Space 18A reported in the last Happenings. Trailers are an important part of museum functionality. **Shop Cleaning** and **Parts Inventory** are always an ongoing job. We are often acquiring **New Stuff** in the form of tools, equipment and display items which are often very used. During this period we received a belt sander, parts blaster and a sewing machine. The sewing machine is especially unique as it was made in Japan and used during World War II to make parachutes in San Diego. In May, Ramona Airport hosted a **Ninety-Nines Beechcraft Airplane Fly-In**. Dozens of Beechcraft owners and enthusiasts and their families attended in more than 50 Bonanzas

and Barons as well as the occasional Cessna and Piper and including a T-34 Mentor flight demonstration team. The Ninety-Nines is an international organization of women pilots founded



Garage/shed roof in March



Garage/shed roof in May



New CR T- shirt front



Trailer fixed and painted



Spare instrument inventory



Belt Sander



Parts blaster



WWII sewing machine



Ninety – Nines Fly-in

by Amelia Earhart in 1929. The event featured a burger & hotdog lunch and several of the members were able to tour the museum. **Tours** continued during this period, increasing during April and May. In addition to the Ninety-Nines, some other interesting rotary and fixed-wing **Aircraft Visitors** to the airport included an MBB BK 117, a Bell 407 doing long-line work, a Sukhoi Su-29 and Piper Cub with Alaska bushwheels. You want a treat; check out the YouTube videos of the little Cubs with the oversize tires doing off-field operations.



Beechcraft T- 34 Mentor



Tour at the Helipod

I have two exciting events history-wise this time. The first happened 85 years ago. June of 1936 saw the first flight of the world's first truly functional helicopter, the Focke-Wulf Fw 61. Dr. Henrich



HRP/H-21 tour



Tour at the Hiller H-12



Piper Cub bush plane

Focke developed the dual side-by-side rotor configuration by rigging the two rotors outboard from the fuselage of an Fw 44 biplane fixed-wing trainer. The aircraft retained the 160 hp Bramo radial engine and propeller. The arrangement gave complete six-degree of freedom directional control to the pilot. Note that previous designs up to this time may have been able to get airborne but lacked sufficient controllability to make them functional. In 1937 Dr. Focke teamed up with engineer Gerd Achgelis to form the Focke-Achgelis Company and the helicopter became the Focke-Achgelis



MBB BK 117



Fw/Fa 61



Fw/Fa 61 in flight

Fa 61. This design lead directly to the development and production of the Fa 223 Drache (Dragon), the world's first functional transport and heavy-lift helicopter. The 223 Drache was about twice the size of the 61 with a 1000 hp Bramo radial driving two 39 ft diameter rotors. The

