



Chapter 569

NEWSLETTER

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SEPTEMBER 6, 1994

LOCATION: COBBLER'S INN
Shoemaker's Truck Stop

TIME: 7:30 PM

PROGRAM: THE HISTORY OF AVIATION IN LINCOLN
Speaker will be Vince Goeres.

SHORT TRIPS

- * Your editor missed Oshkosh this year, however our 3-week trip to Europe helped me forget what I was missing. If we need a program in the future, I have about 5 hours of video tape.

Its good to be back where I can read a Menu, but I sure miss that good German and Dutch Beer.

- * Elections are coming up soon. If you would like to be on the nomination committee or would like to serve as an Officer, please give Ken Mueller a call. Involvement will increase your enjoyment.

- * For the October meeting, we would like to visit some projects. If you would be willing to share your project with the rest of us for a few minutes, please let one of the chapter officers know.

- * Do you know someone who has started a new project, or purchased a new flying machine, or is going on a trip to a fly-in, or has achieved a new rating? Maybe you have done some of these. Please share with the rest of us. Call Roger and put it in the newsletter. A letter or an article would also be nice.

EXPERIMENTAL AIRCRAFT ASSOCIATION

WITTMAN AIRFIELD, OSHKOSH, WI 54903-3086 - PHONE 414-426-4800 - FAX 414-426-4828

Harlo McKinty sent in the following. He also sent his thanks to Dick Miller for telling about the Glenn Curtiss at Hammondsport, NY and the Soaring Museum at Elmira - both worthwhile.

GLENN H. CURTISS FIRSTS

- The "Fastest Man On Earth" with V-8 powered motorcycle with a speed of 136.36 m.p.h., January 23, 1907.
- First pre-announced, publicly witnessed flight in America with A.E.A. "June Bug," July 4, 1908.
- Designer and pilot of world's fastest aeroplane, the "Rheims Flyer," at an average speed of 46.5 m.p.h., August 29, 1909.
- First long distance flight, 150 miles from Albany to New York City following the Hudson River, May 29, 1910.
- First demonstration of bomb dropping from an aeroplane, June 1910.
- Trained Blanche Stuart Scott, the first American female pilot, June 1910.
- Established Curtiss Exhibition Company, September, 1910.
- Opened the Curtiss School of Aviation, December 1910, where first foreign aviators from Japan and India were trained.
- Received first pilot's license in America, issued by Aero Club of America, June 8, 1911.
- "Father of Naval Aviation," first aeroplane purchased by United States Navy, a Curtiss Hydroaeroplane, the A-1, July 1, 1911.
- First dual pilot control, Curtiss Hydroaeroplane, 1911.
- First retractable landing gear used on a Curtiss Hydroaeroplane, 1911.
- Inventor of the world's first successful Flying Boat in June 1912, patented June 8, 1915.
- Awarded the Collier Trophy for hydroaeroplane in 1911 and flying boat in 1912.
- Awarded the Langley Medal by Smithsonian Institution, May 6, 1913.
- Designer of the Curtiss JN4-D, "Jenny," in 1914, World War I trainer, air mail plane and barnstormer.
- Collaborated with United States Navy to design and build the NC Flying Boats, the NC-4 being the first aircraft to make a trans-atlantic crossing May 16-27, 1919.

Glenn H. Curtiss "permitted anyone who willed to use the principles used in the inventions he had made, and the aeronautical industry shall forever be in debt to him for his magnanimity. Scores of experimenters and struggling investors would, during the infancy of the art, have been prevented from securing any foothold whatever had Mr. Curtiss insisted upon enforcing his rights. His value was proved by the universality of adoption of his principles."

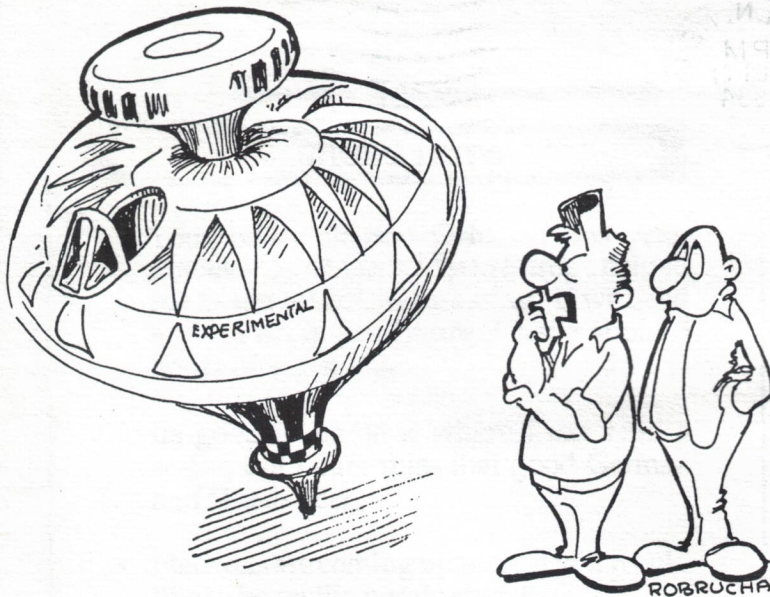
Curtiss Family Papers

LASER ALIGNMENT TOOL

By Daniel A. Majka, Technical Counselor

One use of lasers in industry is to measure straight lines. With the cost of laser diode type pointers coming down to \$39.00, they have become a useful tool for homebuilders. These are low power (3mW) lasers, but will project a beam of red light from a fountain pen sized case that uses two AAA size batteries. These pointers are sold to project a laser spot on a screen to highlight slide shows or lectures. My pointer shoots a rectangular shaped beam that measures 4 mm x 0.6 mm and will project this beam the length of a fuselage or span of a wing.

The beam itself is visible if smoke or dust is put in it's path allowing measurements from the beam any place along it's path or where the beam hits a rib or bulkhead. One way to use the laser is to combine it with a level to project a reference line or to measure the angle of a wing. The laser beam is not affected by temperature, humidity or anything else. May the force be with you!



"It's got a nasty tendency to spin."

1929 - Sept. 24 Guided by a radio beacon and cockpit instrumentation, Lieutenant James Doolittle makes the first instrument takeoff and landing at New York's Mitchel Field.

1927 - Sept. 8 Cessna Aircraft Company opens for business in Wichita, Kansas.

WOODEN SPARS AND SEALED ENDS

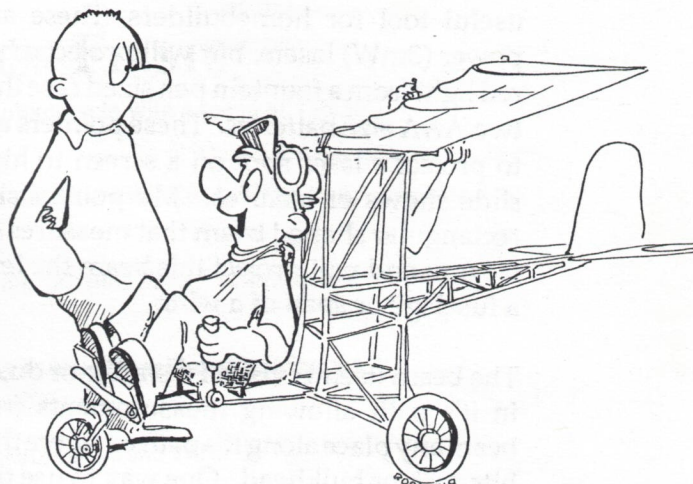
From Mike Smith of Panama City

Mike is rebuilding a Citabria with substantial wooden spar damage. In the process of doing this, he found out that Ben at Bellanca, 612/762-1501, said that the factory was using something call "Black Kapek." This is spread in bolt holes so that the bolts will not corrode inside the holes from the moisture in the wood. They have been using this item for years. I called Cal Henning at Frost Paint, 612/789-8871, and unfortunately the factory is discontinuing this material saying, "there are a lot of better materials out there." Black Kapek was used as a rust preventative on railroad tracks. It is basically an asphalt material dissolved in mineral spirits and driers. It stays rubbery and malleable and is inert - good rust protective and does not attack wood. They are discontinuing it, however, and state that there are many other similar materials that can be used. The railroads are using water-based paints now, but they are not quite as effective as the Black Kapek!

From my experience, I would suggest the use of rustoleum on bolts that are inserted into wood. I checked with my friend, Dr. Brian River, at the Forest Products Laboratory in Madison and he suggested that wax is largely overlooked - it is cheap and easy to use. In fact, he suggests that in the early days, instead of varnish, wax was frequently used to seal the interior of closed wooden structures!

CALENDAR

- Sept. 10—Nebraska 99's monthly meeting 10:30 A.M.
Kearney Airport—Kearney, Nebraska.
- Sept. 11—Harvard State Airfield Fly-In and Clay Center Old-Trusty Days Fly-By. For more information call Jim Frager (402) 726-2315—Fairfield, Nebraska.
- Sept. 11—Fly-In Breakfast 9:00 A.M.-1:00 P.M. Free to all fly-ins—O'Neill, Nebraska.
- Sept. 15-18—31st National Championship Air Races—Reno, Nevada.
- Sept. 16-18—Nebraska Chapter Antique Airplane Association Fly-in, Arapahoe, Nebraska.
- Sept. 24—Ak-Sar-Ben Rodeo, honoring Queen Marguerite, Omaha, Nebraska.
- Oct. 2—Fly-In Breakfast—Auburn, Nebraska
- Oct. 8&9—Confederate Air Force AIRSHOW 94!!! Midland, Texas.
- Oct. 16—NFF&R Fly-In for the Airport Operator of the Year—Grand Island, Nebraska.
- Oct. 19-22—39th Annual AOPA Convention—Palm Springs, California.
- Oct. 23—Nebraska Antique Airplane Association Hangar Fly-in—Grand Island, Nebraska.
- Dec. 3—NFF&R ANNUAL Christmas Party—Country Inn—Norfolk, Nebraska.
- Dec. 11—Nebraska Antique Association Christmas Party—Grand Island, Nebraska.
- Feb. 10-12—NFF&R 50th Annual Convention—North Platte, Nebraska.



"It takes off at 37, cruises at 38, lands at 36 with a never-exceed speed of 39. You might say it has a narrow envelope."

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