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EDUCATION COORDINATOR JUNE 11, 2015



Model 33 Little Dipper Replica N189SE

“LITTLE DIPPER, Aerial Flying Motorcycle & Air Trooper” are significant names describing the original aircraft designed by John Thorp. John was educated at Lockford,

California and the Boeing School of Aeronautics in Oakland, California. He worked on the final assembly line of the Boeing 247 before returning to the Boeing school as an instructor and began designing personal aircraft. John became Assistant Preliminary Design Engineer for Lockheed and was responsible for the preliminary design of the naval patrol bomber, the P2V “Neptune”. The P2V, in 1946 completed an unrefueled distance of 11,236 statute mile record that stood, until a Boeing B-52H Stratofortress based at Minot Air Force Base, North Dakota broke that record in 1962.

The Lockheed Model 33 Little Dipper was one of Thorp’s original private venture single-seat monoplanes, built by Lockheed at Burbank, California. Lockheed’s Vega subsidiary made the agreement in April 1944, to build the “Little Dipper” and gained the interest of the United States Army looking for an alternative to paratroop deployments in placing special troops behind enemy lines with a method that would reduce cost during wartime materials restrictions and authorized the building of two prototypes. The U.S. Army concept envisioned the Little Dipper as an aerial flying motorcycle under the name “Air Trooper”. The first flight in August 1944 was successful but soon after touring of Army bases with the Little Dipper the Army had lost interest.

Lockheed intended to market the Little Dipper as a single-seat, inexpensive light, low-wing cantilever monoplane with a fixed nose-wheel landing gear, powered by a 50 hp (37 kW) Franklin 2A4-49 engine with STOL performance. The Maximum speed was 100 mph, with a service ceiling of 16,000 ft., and take off distance in 100 ft. with a gross weight of 725 lb. With the lack of interest in the prototype development both planes were scrapped in January 1947.

John Thorp made a significant contribution to aircraft design in his lifetime. John started flying in 1929 and by 1946 had over 600 flight hours in 62 different aircraft types and by 1953, fifteen light aircraft designs are attributed to John Thorp. The legacy of Thorp’s development of light aircraft design had a strong influence on Paul Poberezy when in 1953 Poberezy founded the Experimental Aircraft Association (EAA) and assumed the duties of President and CEO with its headquarters located in the basement of his home before the association’s first headquarters was built in Milwaukee, Wisconsin. Since its inception it has grown internationally with over 180,000 members with nearly 1,000 chapters, worldwide with its current base in Oshkosh, Wisconsin.



Jack & Allen



Jack, Allen & Robert

Allen Eke, Jack Smith and Robert Heavirland are chapter members of EAA 237 located at the Anoka County-Blaine, Minnesota Airport (Janes Field). Allen developed an interest in the Little Dipper in 1962 and considered this to be a project that looked like a real aircraft rather than the ultra-lite crafts that were being produced. Based on

The Thorp specifications and a few photos of the original Little Dipper, Allen began sketching designs and developed a team of about 20, EAA members and colleagues that had a desire to see a replica of the Little Dipper fly again. Meetings were held every Thursday to develop the project that eventually produced an FAA approved, **2014 Lockheed Model 33 Little Dipper Replica N189SE**. A Lycoming O-145-B2 engine rated at 65 hp (48 kW) gives the N189SE added horsepower over the Thorp model. The “B” model was the major production model produced in 1938 to the late 40s.

First test: **April 21, 2014** Test pilot Jack Smith. Second test: **May 5, 2014** Test pilot Jack Smith. Test flight: **June 10, 2014** (Flight aborted) First runway flight: **Aug 22, 2014** Test pilot Robert Heavirland. First High Flight: **Aug 26, 2014** Test pilot Robert Heavirland.

Experimental Aircraft Association-Chapter 237-Anoka County Airport-Blaine MN
www.eaachapter237.org



SHAPING OF THE MAY ACTIVITY SCHEDULE

On May 4, 2015, District 11, STEP Instructor Peter Groebner brought his Aviation students to the Blaine airport for tours of Key Air, Golden Wings Museum, R. C. Avionics and Twin cities Aviation. The STEP program introduces Students to Aviation Technology, Aerospace Engineering (PLTW) and Digital Electronic Engineering (PLTW).



May 5, 2015 was a full day of activities for our volunteer staff that started with a visit by Cindy Schreiber, Aerospace Coordinator, for Farnsworth PreK-8 Magnet School. 100 third grade students had the opportunity to tour the Golden Wings Museum. Instructors presented wing design/surfaces, Bernoulli principle, Propulsion, Math/Geography/compass, Emergency services, LifeLink, Cirrus Flight Operations as well as introduction to the EAA young Eagles Program.

MATH & GEOGRAPHY FUEL CONSUMPTION



The evening program at Golden Wings was billed as a “Family Night” inviting families of University Avenue ACES School to visit the school and then round out the evening visiting the Golden Wings Museum. The students had a classroom assignment of developing their own personal booklet of classroom lessons on Aerospace and then became the tour guide for their parents during the visit. Volunteers were on hand to assist the students at the various Aerospace related stations.

May 9, 2015 Linda Olson, with the Air Force Parents Group toured Golden Wings Museum and Control Tower with 30 parents that have cadets and family members in the Air Force. The group was pleased to be able to see an auto club show during their visit. Chapter 32, Mini-Birds of Minnesota Classic Automobile Club of Bloomington, MN, had arrived with 7 of their vintage Thunderbirds and participated in their own tour of the Golden Wings Museum.



MINI-BIRDS AUTO CLUB



May 13, 2015 Kat Watson, Curriculum Integration Coordinator, University Elementary School, National Magnet School of Excellence, provided a theme of “General Aviation” for a tour of the Key Air Facility. Kim Huso and Cheryl Damel coordinated the program at Key Air for 100 first grade students and arranged for a visit to LifeLink and discussions with pilots, Mechanics. Joe Harris provided an airport service truck for a walk around lesson in airport maintenance.

May 13-14, 2015 The Minnesota Business Association hosted the Regional Group Leadership Roundtable of the National Aviation Association at the Best Western Mall of America hotel. Their event included an evening tour and social hour hosted at the Golden Wings Museum on May 13th.

BERNOULLI PRINCIPLE



May 19, 2015 the fifth grade students of Corondelet Catholic School went through the “Forces of Flight Science Curriculum” for the month of May as part of their science curriculum. The students had instruction on gravity, lift, drag, & thrust and had hands on experiments for each. Parts of an airplane were discussed and how they work for flight. Wing designing and the history of flight are part of the curriculum studies.

May 30-31, 2015 brought favorable winds and sunny skies for the Discover Aviation Days events. The public attendance for both days was high and all were treated to a full flight ramp of a variety of aircraft and active fly over activities that pleased the crowds. Plenty of food and product vendors lined the ramp area with a great sound system that announced the schedules of car parades and “planes in review” activities. Gathering places like the Children’s area, Golden Wings Museum and the Educational tent provided vast quantities of enjoyable entertainment and hands on activities at the MnDot and college center. The tent also provided a setting for veterans to share their stories and display memorabilia materials, book sales and a product store making available tee shirts and jackets and momentous. A special “Honoring Veterans” display was developed for the two day event and was housed in the Golden Wings Museum and was included in the free tour of the Museum.



B-25 MISS MITCHELL